CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, February 25, 1909.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File..... 59
List of Contracts Pending..... 59
Railways..... 59
Electric Railways..... 60
Light and Power Plants..... 60
Bridges..... 60
Buildings..... 61
Water Supply and Irrigation..... 62
Sewerage..... 62
Garbage Disposal..... 63
Streets and Roads..... 63
Manufacturing Plants..... 64
Miscellaneous Contracts..... 64
U. S. Possessions and Cuba..... 65
Contract Prices..... 65
CIVIL SERVICE EXAMINATIONS..... 65
INDUSTRIAL NOTES..... 65
TRADE PUBLICATIONS..... 66
PROPOSALS..... 66

CONSTRUCTION NEWS.

Plans and Specifications on File.

(* *denotes that this work is advertised in Engineering News.*)

The following plans (P.) and Specifications (S.) are on file and may be seen at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See issue.
3- 1	Pavement, etc., Oxford, Miss. (S.)	2- 4
3- 1	*Power plant, Lethbridge, Alta. (S.)	1-21
3- 1	*Sewage disposal, Asbury Park, N. J. P. & S.)	2-18
3- 5	Repairing dikes, etc., Savannah, Ga. (S.)	2-11
3-11	Pumping engines, Kansas City, Mo. (S.)	2-18
3-13	Dredging, Norfolk, Va. (S.)	2-25
3-20	Quay wall, Portsmouth, N.H. (S.)	2-25

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

3- 1	*Power plant, Lethbridge, Alta...	1-21
3- 2	Wiring, etc., Atlanta, Ga.	2- 4
3- 2	Transmission line, Winnipeg, Man.	2-18
3- 3	Light fixtures, New York.....	2-25
3- 3	Boilers, etc., Cleveland, Ohio....	2-25
3-22	Elec. supplies, Wash., D. C. ..	2- 4

BRIDGES.

2-25	Abutment, etc., Amherst, Va....	2-25
2-26	Bridge, Spokane, Wash.....	2-25
2-27	Bridges, Richmond, Va.....	2-25
3- 1	Bridge, Marysville, Cal.....	2-25
3- 1	Retimbering bridge, Everett, Wash	2-25
3- 1	Bridge, Lansing, Mich.....	2-25
3- 1	Bridge, Newcastle, Ind.....	2-25
3- 1	Arches, etc., Brookville, Ind.....	2-25
3- 1	Bridges, Magnolia, Miss.....	225
3- 2	Culvert, Salinas, Cal.....	2-25
3- 2	Bridge, Vincennes, Ind.....	2-25
3- 2	Superstructure, Port Clinton, Ohio	2-25
3- 2	Bridges, Grafton, N. Dak.....	2-18
3- 2	Bridges, Faulkton, S. Dak.....	2-11
3- 3	Bridge work, Cleveland, Ohio....	2- 4
3- 4	Bridges, Paris, Ark.	12-17
3- 5	Bridge bonds, Coshocton, Ohio...	2-11
3- 6	Bridge work, Cleveland, Ohio...	2-18
3- 8	Superstructure, Zanesville, Ohio..	2-18
3- 8	*Superstructure, Woodstown, N. J.	2-18
3- 9	Bridge, Fillmore, Cal.....	2-25
3-13	Bridge, Cleveland, Ohio.....	2-25
3-15	Bridges, Coshocton, Ohio.....	2-25
4- 5	Bridge, etc., Harrisonburg, La..	2- 4

BUILDINGS.

2-26	Post-office, Saskatoon, Sask.....	2-25
2-26	School, Troy, N. Y.....	2-26
2-27	Buildings, Winnipeg, Man.....	2-25
2-27	Town hall, Northfield, Ohio.....	2-11
3- 1	Stable, Ft. Snelling, Minn.....	2-11
3- 1	Court-house, Twin Falls, Idaho..	2-11
3- 1	Bakery, Ft. H. G. Wright, N. Y. (Mfg. Pl.)	2-11
3- 1	*Factory, Syracuse, N. Y. (Mfg. Pl.)	2-11
3- 1	*Coal shed, Tiburon, Cal.	2- 4
3- 1	Post-office, Gadsden, Ala.	2- 4
3- 1	Machinery, Maxton, N. C. (Mfg. Pl.)	1-21
3- 1	Hotel, etc., Syracuse, N. Y.....	2-18
3- 3	Post-office, etc., Augusta, Me...	1-28
3- 5	*Ice plant, Hot Springs, S. Dak. (Mfg. Pl.)	2-11
3- 6	Capitol Bldg., Porto Rico. (U. S. Possess.)	2-25
3- 8	*Heating, ventilating, Atlanta, Ga.	2- 4
3- 8	City hall, Indianapolis, Ind....	2-25
3- 8	Quarters, Pensacola, Fla.....	2-25
3- 8	Armory, etc., New York.....	2-25
3- 9	Post-office, Elizabeth, N. J.....	2-11
3-10	Shops, Winnipeg, Man. (Mfg.Pl.)	2-11
3-10	Quarters, Fort Slocum, N. Y....	2-18
3-10	Post-office, Moline, Ill.....	2-18
3-10	*Heating, etc., Wheeling, W. Va..	2-25
3-15	Masonic Temple, Flint, Mich....	2-25
3-17	Lock houses, Pittsburg, Pa.....	2-25
3-20	Hospital, Annapolis, Md.....	2-18
3-22	Post-office, Dixon, Ill.....	2-18
3-25	*Post-office, Boulder, Colo.....	2-25
4- 5	Jail, Lebanon, Ind.....	2-25

WATER-WORKS.

2-26	Aqueduct, Salt Lake City, Utah.	2-18
2-26	Water mains, Jackson, Minn. ...	2-18
3- 1	Pump, Forest Park, Ill.....	2-18
3- 1	W.-Wks., material, Saskatoon, Sask.....	2-18
3- 1	Water main, Milwaukee, Wis...	2-11
3- 1	Pump, Muskogee, Okla.....	2-11
3- 1	*Filtration plant, Rock Island, Ill.	2- 4
3- 1	Water equipment, Summit, Ill..	2-25
3- 1	Boiler, Spartanburg, S. C.....	2-25
3- 4	Water tank, Fort Assinniboine, Mont	2-11
3- 4	Cast-iron pipe, Waukesha, Wis..	2-25
3- 6	Water mains, East Milwaukee, Wis	2-25
3- 8	Filtration plant, White Plains, N. Y.	2-25
3- 8	*Water-works, Shattuck, Okla....	2-18
3- 8	Water mains, New York	2-25
3- 9	*Aqueduct, New York.....	2-18
3-11	*Aqueduct, New York	2-18
3-11	Meter chambers, etc., Fort Warren, Mass.	2-18
3-11	*Pumping engines, Kansas City, Mo	2-18
3-11	*Enlarging dam, Lebanon, Pa.....	2-11
3-11	Water impvt., Toledo, Ohio.....	2-25
3-15	Water-works, Wichita, Kan.....	1-21
3-15	*Filtration plant, Philadelphia, Pa	2-18
3-16	W.-Wks., Berlin, Md.....	2-18
3-18	*Siphon, New York.....	2-25
3-19	*Water extensions, Fort Andrews, Mass	2-25
3-22	*Tunnel, New York.....	2-25
3-25	Water-works, Stevensville, Mont.	2-25
5- 5	Pumping machinery, Petaluma, Cal	2-11

SEWERS.

2-26	Sewer, Louisville, Ky.....	2-11
2-26	Sewer pumps, Mankato, Minn....	2-25
3- 1	Plans for sewer, Marion, Kan....	2-25
3- 1	*Sewage disposal, Asbury Park, N. J.	2-18
3- 1	Sewer, New London, Conn.....	2-11
3- 2	Sewer, Newburgh, N. Y.....	1-28
3- 2	Sewers, St. Louis, Mo.....	2-18
3- 3	Sewers, etc., Brooklyn, N.Y.....	2-25
3- 3	Repairing catch-basins, Fort Hamilton, N. Y.	2-25
3- 5	Sewer, Louisville, Ky.....	2-25
3- 5	*Sewer, Avalon, N. J.....	2-18
3- 8	Sewer, Grundy Center, Iowa.....	1- 7
3-19	*Sewer extensions, Fort Banks, Mass	2-25
3-22	Sewer system, Wayne, Neb.....	2-18
4- 2	*Purification plant, Millville, N.J.	2-25

STREETS AND ROADS.

2-25	Grading, St. Clair, Pa.....	2-25
2-26	Macadam, etc., Waukesha, Wis..	2-25
2-27	Curbing, etc., Newton, Ohio.....	2-11
2-27	Grading, etc., Newton, Ohio.....	2-11
3- 1	Road, Columbus, Ind.....	2-11
3- 1	Roads, Danville, Ind.....	2-11
3- 1	Roads, Mooresville, N. C.....	2-11
3- 1	Road, Portsmouth, Va.....	2-11
3- 1	Pavement, etc., Oxford, Miss...	2- 4
3- 1	Road, La Fayette, Ind.....	2-18
3- 1	Roads, Greenfield, Ind.....	2-18
3- 1	Road, Crain Point, Ind.....	2-18
3- 1	Pike road, Vernon, Ind.....	2-18
3- 1	Macadam roller, Winnipeg, Man.	2-18
3- 1	Grading, etc., South St. Paul, Minn	2-25
3- 1	Paving, Newbern, N. C.....	2-25
3- 1	Roadway, Sacramento, Cal.....	2-25
3- 1	Paving, Olympia, Wash.....	2-25
3- 1	Street impvt., etc., Jersey City, N. J.	2-25
3- 1	Crushed stone, Plainfield, N. J..	2-25
3- 2	Road, Seymour, Ind.....	2-25
3- 2	Road, Covington, Ind.....	2-25
3- 2	Roads, Kentland, Ind.....	2-25
3- 2	Roads, Washington, Ind.....	2-18
3- 2	Road, Logansport, Ind.....	2-18
3- 2	Pike roads, Spencer, Ind.....	2-18
3- 2	Roads, Monticello, Ind.....	2-18
3- 2	Roads, Bloomfield, Ind.....	1-28
3- 2	Roads, Vincennes, Ind.....	2-11
3- 2	Roads, Crawfordsville, Ind.....	2-11
3- 2	Asphalt, Louisville, Ky.	2-18
3- 3	Regulating, etc., Brooklyn, N. Y.	2-18
3- 3	Road, Muncie, Ind.....	2-18
3- 4	Road, Wabash, Ind	2- 4
3- 4	*Paving, Corning, N. Y.	2- 4
3- 5	Road, Newcastle, Ind.....	2-18
3- 6	Roads, Williamsport, Ind.....	2-18
3- 6	Road impvt., Cleveland, O.....	2-18
3- 6	Roads, Marion, Ind.....	2-25
3- 8	*Repaving, Buffalo, N. Y.....	2-18
3- 9	Street impvts., St. Louis, Mo....	2-25
3- 9	Paving blocks, Washington, D. C.	2-25
3-10	*Asphalt, Winnipeg, Man.....	2-25
3-10	Roads, Anderson, Ind.....	2-25
3-10	Grading, etc., Cleveland, Ohio..	2-25
3-15	Paving, Pauls Valley, Okla.....	2-25
3-16	*Street impvt., Bayonne, N. J....	2-25
3-20	Road impvt, Cleveland, Ohio.....	2-18

MISCELLANEOUS.

2-27	Ditch, Flandreau, S. Dak.....	2-18
2-27	Ditch, Newtown, Ohio.....	2-11
3- 1	Coal shed, California City Point, Cal	2-11
3- 1	Crematory (Garbage), Sacramento, Cal.	2-25
3- 1	Coal conveyor, Calgary, Alta..	2-25
3- 1	Supplies, Panama	2-25
3- 2	*Telephone line, Winnipeg, Man..	2-11
3- 2	Fire Dept. equipment, New York.	2-18
3- 2	Ditch, E. St. Louis, Ill.	2-25
3- 2	Naval supplies, Wash., D. C....	2-25
3- 3	Ditch, Fairmont, Minn.	2-25
3- 3	Drainage ditches, Emmetsburg, Iowa	2-11
3- 5	Repairing dikes, etc., Savannah, Ga	2-11
3- 5	Stone, Grand Rapids, Mich.....	2-11
3- 5	River impvt., Buffalo, N. Y.....	2-11
3- 6	Monuments, Ottawa, Ont.	2-25
3- 8	Ditch, St. Paul, Minn.	2-25
3- 8	Supplies, Panama	2-25
3- 9	Naval supplies, Wash., D. C....	2-25
3- 9	Drainage, Deerfield, Wis.	2-25
3- 9	Macadam, Columbus, Ohio	2-18
3-10	Regulating, etc., Brooklyn, N.Y.	2-25
3-10	Pile revetment, N. Chicago, Ill..	2-25
3-11	Repairing steam rollers, New York	2-25
3-12	Iron fence, St. Paul, Minn.	2-25
3-13	Dredging, Norfolk, Va.	2-25
3-16	Naval Supplies, Wash., D. C....	2-25
3-17	*Lock gates, Brownsville, Pa.....	2-18
3-17	Mooring stones, Portland, Me...	2-11
3-18	Wire fence, Ft. Hamilton, N. Y..	2-25
3-20	Quay wall, Portsmouth, N. H..	2-25
3-24	*Lock machinery, Wheeling, W.Va.	2-25

CIVIL SERVICE.

2-27	Supt. Highways, Albany, N. Y...	2- 4
2-27	Resident Engr., Albany, N. Y...	2- 4
3- 3	Chemical Biologist, Wash., D. C.	2- 4
3-10	Civil engineer, Philippines.....	2-25
3-15	W.-Wks. Supervisor, Minneapolis, Minn	2-15
3-17	Practical Miner, Wash., D. C..	2- 4
3-17	Aid in Zoology, Wash., D. C. ...	2- 4
3-24	Asst. Chemist, Wash., D. C.....	2-25

FOREIGN.

3- 1	Floating dock, Egypt	12-31
3- 1	Railways, Chile	2-25
3-11	Tugboats, Belgium	2-25
4-15	Steel rails, Siam	2-25
4-15	*Motor hose wagon, China.....	2-25
4-24	Railway supplies, Chile	2-25

RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

ALBERTA CENTRAL.—The Canadian Northern Ry. Co., it is announced, will build six branch lines in Alberta under title of the Alberta Central R. R. Co. Capital is $5,000,000, with bonding privileges of $25,000 per mile. The lines include a branch from the Canadian Northern Ry. at Vermillion northerly and westerly to Brudheim on the company's line; from a point on the Edmonton-Morinville branch northerly and easterly to some point in the Peace River country. From Strathcona southerly via Calgary to the junction of the Bow and Belly Rivers and also a branch from this line to McLeod. These plans call for the construction of over 2,000 miles of track. Noted on Dec. 24.

BEAVER VALLEY & NORTHWESTERN.—It is announced that construction will be commenced by this company in May. As noted on Dec. 3, J. M. Kerns, Sunset, Okla., Gen. Mgr., advised us that this company has let contract for building this railroad in Oklahoma from Gage, via Beaver, to Hooker, a distance of 104 miles, to T. E. LUTTGERDING, Turner Bldg., Wichita, Kan. Surveys are made. Capital for construction and right-of-way has been obtained. H. A. Perkins is Ch. Engr., Beaver, Okla. Previously noted.

CANADA.—Press reports state that "an important reorganization of the Railway Commission is announced by which the Dominion is divided into districts, each in special charge of one of the commissioners as to routine applications. Chief Commissioner Mabee will have a general supervision over each district. The Province of Ontario, with the exception of Port Arthur and the district west thereof, is placed under the immediate jurisdiction of D'Arcy Scott, the Assistant Chief Commissioner, and he will be assisted by Inspectors James Ogilvie and James Clarke. The Provinces of Quebec, New Brunswick, Prince Edward Island and Nova Scotia are allotted to Hon. M. E. Bernier, who will be assisted by E. C. Lalonde, Inspector. Commissioner S. J. McLean takes charge of Manitoba, Saskatchewan, and that portion of Ontario west of Port Arthur, with W. S. Blythe, of Winnipeg, as Inspector. Alberta and British Columbia will be looked after by Commissioner Mills, assisted by Inspector M. J. McCaul."

CHESAPEAKE & BLUE RIDGE.—C. Orrick Swann, 1425 New York Ave., Washington, D. C., is stated to have completed surveys for this railroad from the south side of the Potomac River, opposite Point of Rocks, Md., southwest to Taylorstown, Waterford and Hamilton, Va. Thomas M. Henry, 1416 F St., N. W., Washington, D. C., is Pres.

CHILE.—Bids are asked for construction of railways and for railway supplies. See under Foreign Contracts.

COLORADO & NORTHWESTERN.—This railroad and equipment will be sold at foreclosure at Boulder, Colo., on March 29 by Special Master George F. Bartlett, Jr., to the highest bidder for cash. The notice states that the sale is made for the purpose of paying the principal and interest on the bonds, the terms of sale provide for a cash deposit of $20,000 by the bidder as an evidence of good faith, and that no bid will be received for less than $250,000. The road runs from Boulder, Colo., to Sunset, where it branches, one line going to Ward and one to Eldora. It has, including spurs, about 53.8 miles of track. It has been operated by W. B. Hayes as receiver for about two years. J. T. Odell is Pres., 50 Church St., New York.

GRAND TRUNK PACIFIC.—Trains will be running between Winnipeg, Man., and Fort William, Ont., by August 31, according to press reports. The branch northward from Fort William to the main line is now in operation and 110 miles of rail are laid between Winnipeg and this junction. In order to rush the work as much as possible contractors are working two shifts, using electric light by night.

GREAT NORTHERN.—See Northern Pacific.

JONESBOROUGH, LAKE CITY & EASTERN.—Incorporated in Texas to build a railway from Uvalde, Tex., to Laredo, 125 miles. The proposed line will connect with the Southern Pacific Co., at Uvalde and the International & Great Northern R. R., at Laredo. E. C. Brown, A. J. Kerfoot and others of Uvalde, are interested.

KAPITCHOUAN RAILWAY.—Application will be made to the Canadian Parliament for the incorporation of this company, which intends to build a line of railway from a point on the Grand Trunk Pacific Ry., near Lake Papitchouan, Que., in a southeasterly direction to Montreal, with branches about 12 miles long each. G. Desaulnies, Montreal, Que., is the solicitor.

KOOTENAY & ALBERTA.—A company is seeking incorporation under this name to build from a point on the American boundary northeasterly to a point on the Alberta-British Columbia boundary where it is intersected by the Kootenay Pass, the line following the valley of the Flathead River. J. B. Ferguson, J. H. Senkler and Edgar Bloomfield, of Vancouver, B. C., are among the incorporators. Capital, $3,000,000.

LAKE ARTHUR, JENNINGS & NORTHERN.—Incorporated in Louisiana, with $500,000 capital to build a road from Lake Arthur, La., north ten miles, to Jennings and possibly further north to some point on the Colorado Southern, New Orleans & Pacific Ry. W. D. Conover, Pres., Lake Arthur; B. B. Bliss, Secy.; G. B. Zeigler, Vice-Pres. and Treas.; E. P. Fox, Gen. Mgr. and Supt. Construction, Jennings, La.

MANITOBA & NORTHWESTERN.—(Canadian Pacific).—Application has been made to the Dominion Government for an extension of time to build the following lines: From Sheho to Prince Albert, Sask.; extension of the Shell River branch from Russell, Man., to the northern or western boundary of Manitoba; branch line from the main line between Portage la Prairie, Man., and Arden, via the Riding mountains to the northern or western boundary of Manitoba; branch line from a point between Westbourne, Man., and Beautiful Plains, northwesterly in the direction of Lake Dauphin or Duck mountains; branch line from the main line between Theodore, Sask., and Insinger in a westerly and northwesterly direction to a junction with the Quill Lakes branch at Township 32, range 18 or 19, west of the second meridian, about 80 miles; branch line from Bredenbury, Sask., on the main line northerly to Kamsack, about 42 miles.

NORTHERN PACIFIC. — Arrangements have been completed by the Northern Pacific and the Great Northern roads for the joint construction of a cut-off from Northtown Junction to the union depot in Minneapolis, Minn. This cut-off will be three miles long, and will run through a populous part of Minneapolis. It will be an elevated structure, from 15 to 22 ft. above the level of the street, so that it will be free from grade crossings. The Mississippi River is to be bridged, the structure running across Boom Island, on which the terminals of the Wisconsin Central Road are located. The tracks of that road will be spanned. Estimated cost, $2,000,000. Work is to begin as soon as the weather will permit. W. L. Dowling is Ch. Engr., St. Paul, Minn.

OAXACA & AYUTLA.—The Mexican Government has granted a concession to Jose Castellot, a member of the national senate, on behalf of the Mexican & American Holding and Improvement Co. of Salt Lake City, Utah, for the construction and operation of a railroad between the Pacific ports of Acapulco and Salina Cruz. This road will be about 250 miles long. It will connect with the National Tehuantepec line at Salina Cruz and will be called the Oaxaca & Ayutla R. R.

PARIS & MOUNT PLEASANT.—We are officially advised that company will start locating its proposed line on March 1. It will run from Paris to Mount Pleasant, Tex., 50 miles. Right-of-way has not been secured yet. R. F. Scott is Pres., Paris, Tex., J. D. Trammell is Ch. Engr., Fort Worth, Tex.; N. H. Ragland, Secy., Paris. Noted on Jan 28

PECOS, TOYAH VALLEY & SOUTHWESTERN.—Right-of-way has been secured for this railway and surveys made. Construction probably will commence next month. The line will connect Pecos and Alpine or Marfa, Tex., a distance of about 100 miles. M. L. Swineheart, Pecos, Tex., is Mgr.

RALEIGH & SOUTHPORT.—An extension will be built from Fayette, N. C., to Hope Mills, 6½ miles. There will be two trestles. F. T. Ricks is Asst. Gen. Mgr., Raleigh, N. C. Company now operates a 64-mile line between Raleigh and Fayetteville.

SIAM.—Bids are asked for 20,000 tons of steel rails. See under Foreign Contracts.

STAUNTON RIVER.—We are officially advised that construction of this railroad will not be commenced until late in the spring. No contracts have been awarded yet. As noted on Jan. 21, company was chartered to build a 7-mile line in Virginia from Pittsville to Brights. J. H. C. Barr is Pres., 1431 Land Title Bldg., Philadelphia.; W. D. Parker, Pittsville, is Vice-Pres.

SOUTHERN PACIFIC.—The UTAH CONSTRUCTION CO., Ogden, Utah, has contracts for double tracking 36 miles of road between Roseville and Colfax, Cal. Estimated cost, $2,000,000. Easier grades are being sought for the new second track, so that it will not in all cases follow the original line, but will be several miles distant from it. Three surveys have been made

for a line to run from a point east of Colfax to a point west of Truckee. The construction of this line is estimated to cost from $10,000,000 to $15,000,000, but no assurances have been given that it will be built this year. The probabilities are that it will be allowed to wait until financial conditions are more favorable for raising large sums of money. The line from Truckee to Winsted, however, is to be double tracked just as soon as weather conditions will permit.

TENNESSEE & NORTHEASTERN.—Surveys are under way and right-of-way is being secured for this railroad. Noted last week. It will run from Winchester Siding, Tenn., on the Queen & Crescent Route, to Ravenscroft, Tenn., terminus of the Sparta Branch of the Nashville, Chattanooga & St. Louis Railway; also that there will be a branch into Pickett County, Tenn.

VIRGINIA & SOUTHWESTERN.—We are officially advised that contract for construction of the Holston River line of the Virginia & Southwestern Railway was awarded to LANE BROS. CO. & JONES, Altavista, Va., on Feb. 20.

WISCONSIN CENTRAL.—It is probable that plans will be prepared soon for shortening this company's main line between Chicago, Minneapolis & St. Paul. It is said that the road company eventually may build a new cut-off from Mukwonago, Wis., on the main line west of Milwaukee to Grand Rapids, 135 miles, and from Spencer, Wis., to Owen, 15 miles. This would connect with the present main line by the Portage and Grand Rapids branches and would reduce the distance between Chicago and St. Paul 45 miles. Chas. N. Kalk is Ch. Engr., Chicago.

ELECTRIC RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—The Hudson & Manhattan Railroad Co. has applied to the Public Service Commission, First District, for a franchise to extend its subway system from the present terminus at Sixth Ave. and 33d St. to the Grand Central Station, 42d St., connecting there with the Interborough subway and the Belmont or Steinway tunnel. Wm. G. McAdoo is Pres., 30 Church St.

CLARION, PA.—We are officially advised that the Clarion & East Brady Elec. Ry. Co. will let construction contracts within the next 90 days. Line will run from Clarion to East Brady, via Sligo and Rimersburg, about 25 miles. Right-of-way and capital are partly secured. Surveys have not been run yet. Noted on Jan. 21.

SOMERSET, PA.—The Somerset Street Railway Co. has been granted a charter to operate eleven miles of line in Somerset County. The new company has $60,000 capital. It will run from Somerset to a number of surrounding towns. The officers are: President, John A. Berkey; Secy., John C. Lowry; Directors, F. B. Pluck, C. L. Shover, A. Kent Miller, J. C. McSpadden, A. L. G. Hay and John C. Lowry. The charter authorizes the company to use either electricity or gasoline. Noted on Jan. 7.

BELLEVILLE, PA.—The Belleville & Reedsville Ry. Co. probably will commence construction this summer on its proposed line which is to connect Belleville and Reedsville. It will be about ten miles long. Capital stock, $100,000. L. M. Yoder, Belleville, Pres.; S. M. Patterson, Avondale, Vice-Pres.; F. W. Warner, Belleville, Secy. and Treas.

SALISBURY, MD.—The Wicomico Electric & Power Co. is reported to be receiving bids for building an electric railway between Salisbury and Nanticoke Point, 24 miles. Marion V. Brewington is Pres.; L. W. Dorman, Vice-Pres.; H. James Messick, Second Vice-Pres.; Jesse D. Price, Gen. Mgr.; William M. Cooper, Treas.; Mark Cooper, Secy.

GREENVILLE, S. C.—Project is under way for building an electric railway from Greenville to the summit of Paris Mountain. No company has been formed and no details arranged. The matter is in charge of the Chicago Development Co., which will construct the railway, provided the city of Greenville will subscribe the sum of $30,000.

FINDLAY, OHIO.—Construction will be commenced in April by the Findlay-Marion Railway & Light Co. on its proposed overhead electric railway which will connect Findlay, Mount Blanchard, Forest, Marseilles, Meeker and Marion, 46 miles. The company expects to purchase twelve cars. A contract has already been awarded to furnish the company with power. Capital stock authorized, $250,000, to be increased to $1,250,000. Headquarters, 535 Columbus Savings & Trust Bldg., Columbus. R. P. Hankey, 57 Smith Ave., Detroit, Mich., Pres.; William Bishop, Mount Blanchard, Vice-Pres.; G. W. Meeker, Columbus, Secy. and Treas.

ATHENS, OHIO.—B. B. Putnam and D. A. Bartlett, of Marietta, Ohio, are interested in a project to build electric lines to connect Athens, Ohio, with Nelsonville and Glouster, a distance of about 14 miles.

PEORIA, ILL.—We are officially advised that the Peoria & Galesburg Ry. Co. has made surveys and partly secured right-of-way for its proposed electric railway. Incorporated in Illinois with capital stock of $100,000. The road is to be constructed from Peoria through Peoria and Knox Counties to Galesburg, and from Peoria through Peoria and Fulton Counties to Canton, Fulton County, 75 miles. Incorporators and first Board of Directors: D. M. Mayer, Arthur C. Black and S. F. Atwood, of Peoria; William K. Boone, Lima, Ohio; Homer T. Dick, Chicago. Mr. Mayer is Pres. and Mr. Atwood is Secy. and Treas.

SIOUX FALLS, S. DAK.—The Sioux Falls & Sioux City Electric Ry. Co. will build a standard-gage line, about 90 miles in length, connecting Sioux Falls, Worthing, Beresford, Elk Point, S. Dak., and Sioux City, Iowa. About 50 miles of the right-of-way have been secured. Both electric and gasoline motor cars may be operated on the line. It is the intention of the company to build two power stations, one at Sioux Falls, S. Dak., and the other at Sioux City. The repair shops will be erected at Sioux Falls. Capital stock authorized, $1,000,000. Headquarters, Sioux Falls, S. Dak. O. H. Smith, Pres.; Charles Fantle, Vice-Pres.; E. D. Morcom, Secy. and Treas.; Geo. W. Burnside, Gen. Mgr.; F. C. Whitehouse, Supt., all of Sioux Falls, S. Dak.

INDEPENDENCE, MO.—We are officially advised that local people are planning the construction of about 75 miles of electric railway from Independence southeast. Surveys are completed for the first 42 miles and plans are now being made for the construction of the first eleven miles, on which a motor car will be operated until the 42 miles are built, when the whole line will be electrically equipped. H. M. Stayton, Independence, Mo., is Ch. Engr.

The Kansas City, Independence & Southeastern Elec. Ry. Co. proposes to build from Independence to Holden, Mo. Survey is in progress and it is expected to be finished this month. Bernard Zick is Pres. Executive Committee: J. B. Hatten, J. D. Briggs, Albert M. Ott, Maurice Pieser and J. A. Prewitt, all of Independence. E. C. Harrington is Secy.

MOUNT PLEASANT, TEX.—We are officially advised that contracts will be let soon for building a gasoline motor line from Mount Pleasant to Red Springs, 1½ miles. Company has not been incorporated yet, but work has commenced and will be carried to completion. The proposed line from Mount Pleasant to Pittsburg has been abandoned for the present. M. C. Wolfe, of Mount Pleasant, is the promoter. Noted on Dec. 31.

EVERETT, WASH.—We are officially informed that the Seattle-Everett Traction Co. and the Everett Ry., Light & Water Co. have contracted with the STONE & WEBSTER ENGINEERING CORPORATION, 147 Milk St., Boston, Mass., for the construction of an interurban railway from Halls Lake to Everett, a distance of 13 miles. There is already built a nine-mile section of interurban railway between Seattle and Halls Lake and this, together with the new section, will form a through interurban connection between Seattle and Everett. The Seattle Electric Co. will provide the connecting line between the interurban at the city limits and its own system. The road will be built entirely on private right-of-way. Catenary overhead construction will be used and current will be supplied from a substation to be located halfway between the Freemont substation of the Seattle Electric Co. in Seattle and the power station of the Everett Ry., Light & Water Co. in Everett. The Freemont substation receives current from either the Puyallup water-power plant or the Georgetown turbine station. From this substation the current will be carried at 13,000 volts to the new substation for the interurban. The present arrangements provide for improvements in the present line from Seattle to Halls Lake as well as all the work involved on the new section.

HONOLULU, HAWAII.—The Pearl Harbor Traction Co., of Honolulu, has filed an application with the Territorial Treasurer asking for a charter for this company which proposes to extend the lines of the Honolulu Rapid Transit Co. to the Naval Station at Puuloa, Pearl Harbor. Capital stock, $100,000. L. Tenney Peck, Pres.; Alfred L. Castle, Secy.; Charles H. Atherton, Treas.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

NORTH BROOKFIELD, MASS.—The Oxford Linen Mills Co. has bought land and water rights along Mad Brook, below the North Brookfield reservoir and pumping station, from W. A. Fullam. It has plans to develop water power from which electricity is to be developed for transmission to the company's plant, two miles distant. The reservoir and pumping station of the North Brookfield system are above the site selected by the Oxford Linen Mills Co. on Mad Brook. It is proposed to build a dam that shall be 60 ft. across the top and with an extreme height of 30 ft., across the gorge through which the brook tumbles on its way to Lake Lashaway. One or more turbine waterwheels will be put in. It is expected that the wheel or wheels will develop 150 to 250 HP.

NEW YORK, N. Y.—Bids are asked by John W. Brannan, Pres. Bd. of Trustees, Bellevue and Allied Hospitals, until 3 p. m., March 3, for furnishing and setting of lighting fixtures in Training School for Women Nurses of Bellevue and Allied Hospitals, situated in 26th and 25th Sts., and East River, Boro. of Manhattan, the City of New York.

Following are the bids received on Feb. 16 for the work referred to above: L. Perelson, Inc., 204 Center St., $4,612; Central Chandelier Co., 413 West Broadway, $4,940; the Simes Co., 18 Rose St., $5,000; the Enos Co., 5 West 39th St., $5,875; Wahle-Phillips Co., 552 West 52d St., $5,694; Archer & Pancrodt Co., 12 East 33d St., $6,037.

BERLIN, MD.—Bids are asked until March 16 by the Mayor and Council of Berlin, for constructing an electric light plant and water-works system. The work is to be divided into seven divisions, which may be bid upon separately or collectively. The work is sub-divided as follows: Division A, water distribution system; Division B, poles, lines, wiring and electric street lamps; Division C, power plant building, foundations for machinery, boiler and standpipe; Division D, power plant equipment, including a 100-HP. boiler, one 50-KW. generating unit, one 500-gallon per minute duplex water pump, switchboard, piping and accessories; Division E, standpipe (12 x 125 ft.). Division F, wells (3 ins. and 8 ins. and probably not more than 100 ft. deep). Dodge & Day, 608 Chestnut St., Philadelphia, Pa., are Engrs.

COLQUITT, GA.—J. B. McCrary & Co., Empire Bldg., Atlanta, Ga., will have charge of the construction of the proposed municipal electric light plant. The cost of the plant is estimated at from $10,000 to $15,000.

NEWTON, ALA.—The Chocatahatchee River Light & Power Co., incorporated for over $500,000 in which the Kellys Morris Lumber Co., Slocomb, Ala., is interested will commence erecting dams across the Chatahatchee River soon, near Newton and at Blackman's mill northwest of Newton, for the purpose of supplying power to Slocomb, Dothan and other southeast Alabama towns.

HATTIESBURG, MISS.—The Hattiesburg Traction Co. is planning to increase the equipment of its power plant by installing two 500-KW. turbo-generators and a motor generator set for railway service. C. Z. Stephens, Hattiesburg, is Gen. Mgr.

PAINTSVILLE, KY.—H. A. Loche, 547 Drexel Bldg., Philadelphia, Pa., has purchased a franchise for the construction of an electric light plant and water-works system in Paintsville. Work on construction of the plants will begin in about four weeks.

CLEVELAND, OHIO.—Bids are asked until March 3 by the Board of Public Service for furnishing and installing two horizontal tubular boilers, 15 ft. long, 66-in. diameter, with mechanical stoker, for Brookside Park heating plant. E. H. McIntosh is Secy.

INDIANAPOLIS, IND.—Arrangements are being made by the Samuel H. Chute Co. to install an electric light, heat and power plant on the East Side to furnish electricity for lamps and motors to all buildings on the square bounded by Central and First Aves., Fourth St. and University Ave. L. P. and F. B. Chute are agents for the company.

ANDERSON, IND.—The Union Gas Light & Fuel Co., of this city, has announced that it has retained E. G. Cowdery, of Chicago, Ill., to prepare plans and specifications for erection of a gas plant for making artificial gas in this city within a few months. The cost of erection is to be about $125,000.

FAIRFIELD, IOWA.—The City Council has decided to secure electricity for lighting the streets of the city and for pumping the city water from the Fairfield Gas & Electric Co., which will install a plant with duplicate machinery at a cost of from $25,000 to $30,000. The company will furnish a day electric service.

BURLINGTON, IOWA.—Bids are asked by D. S. Cooper, Secy. Bd. of Education, Burlington, Iowa, until March 18, on material for a central heating station, including three 150-HP. water tube boilers, set up complete; a complete underground distribution system to three schools; a power-house and a 54-in x 125-ft. brick or tile chimney. William H. Bryan, Lincoln Trust Bldg., St. Louis, is Consult. Engr., and Temple, Burrows & McLane, McManus Bldg., Davenport, Iowa, Associate Archs.

KANSAS CITY, MO.—The contract for the construction of the power house, laundry and smokestack at the poor farm has been awarded by the County Court to YETTER & KLEINHOFFER, for about $19,000.

MUSKOGEE, OKLA.—Plans for the construction of a power plant on the Grand River, a few miles below Muskogee, are being revived by C. N. Haskell and D. N. Fink. It is proposed to build a plant which will cost about $1,000,000 and will furnish electricity to cities within a radius of 50 miles.

MINCO, OKLA.—Burns & McDonnell, Consult. Engrs., Scarritt Bldg., Kansas City, Mo., are preparing plans and specifications for an electric light plant and water-works system for this city, the cost of which is estimated at $20,000.

YUKON, OKLA.—We are officially advised that bids were received on Feb. 15 by the Yukon Mill & Grain Co., Yukon, Okla., for the following machinery: One 18 x 42 girder-type Corliss engine; two 175-HP. water-tube boilers, 175 lbs. pressure; suitable steam separator; steam trap for same; two simplex pumps, either to have capacity sufficient for above boilers; 350-HP. heater. The contract has been let to the H. N. STRAIT MFG. CO., Shawnee, Adams and Bafrd Sts., Kansas City, Mo.

CLOVIS, N. MEX.—Plans are being prepared by Burns & McDonnell, Consulting Engrs., Scarritt Bldg., Kansas City, Mo., for installation of an electric light plant, water-works system and sewerage system for Clovis, to cost about $125,000.

NORTH YAKIMA, WASH.—Notice of appropriation of 10,000 cu. ft. of water per second from the Yakima River has been filed by R. B. Brown, of Seattle, Wash. The water is to be utilized to generate electricity to operate a street railway and manufacturing plants; also to supply electricity to cities and towns for lamps and motors.

HOOD RIVER, ORE.—The Hood River Light, Power & Water Co. is planning to make improvements and additions to its system, which will include the purchase of equipment, as follows: One 750-KW. 6,600-volt alternating-current generator, a 1,500-HP. turbine and rewiring. A reservoir will also be built and a 60-in. valve will be placed in the main pipe near the power-house. A reservoir will also be constructed in connection with the water-works system. E. E. Goff, Hood River, is Mgr.

OROVILLE, CAL.—H. P. Wilson, Secy., of the Great Western Power Co., Crocker Bldg., San Francisco, Cal., states the work of doubling the present capacity of the electric plant at Big Bend, near here, will be undertaken as soon as the weather settles this spring. The capacity will be increased to 144,000 HP. Construction work will also begin this spring on the dam that will convert Big Meadows, in the mountains, into a reservoir. The company owns the reservoir site of 20,000 acres, and water will be stored in the winter for use during the dry season. About $5,000,000 will be spent on these new works, making $15,000,000 invested.

WEISER, IDAHO.—Th[illegible] Idaho-Oregon Light & Power Co. will co[illegible]nce work soon on construction of its pr[illegible]ed sub-station in Weiser. The compan[illegible]as granted a franchise to furnish electri[illegible] in this town recently. O. G. F. Mark[illegible] Boise, Idaho, is Gen. Mgr.

VANCOUVER, B. C.—Pla[illegible]re being considered by the Canadian In[illegible]rial Co., it is reported, for construction [illegible] a paper and pulp mill on the Powell Ri[illegible] A 5,000-HP. hydro-electric plant will be [illegible] in connection with the enterprise. A[illegible] Carmichael, Hydraulic Engr., has been [illegible]king investigations for developing wat[illegible]ower for the company.

It is reported that the [illegible]sh Columbia Electric Ry. Co. is planni[illegible] obtain the two water powers of the [illegible]ser Valley, Stave Lake Falls, near Rusk[illegible]nd the Vedder Falls, near Chilliwack, [illegible] to build a belt line railway, of which [illegible] Chilliwack line will be a part. R. H. [illegible]rling, Vancouver, is Gen. Mgr.

KAMLOOPS, B. C.—H. [illegible]outcher, of Cleveland, Ohio, and Vancou[illegible] B. C., has been engaged by the city [illegible] Kamloops to make a report on a scheme [illegible]r reorganizing the municipal electric [illegible]ghting and pumping plant.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

LEOMINSTER, MASS.—The [illegible]ew York, New Haven & Hartford R. R. [illegible] is having plans prepared for three ste[illegible] bridges in connection with the abolition of grade crossings in Leominster. Edward [illegible]gel is Ch. Engr. Bridges, New Haven.

RICHMOND, VA.—Bids will be received by the State Highway Commission until Feb. 27 for the construction of a steel bridge over Deep Creek, in Powhatan County, and also for steel bridge over North Anna River, between Caroline and Hanover Counties. P. St. J. Wilson is State Highway Comr.

AMHERST, VA.—Bids will be received until Feb. 25 for constructing a concrete pier and abutment for the highway bridge over Harris Creek, Elon District. F. B. Tyler and C. B. Scott, Committee.

LYNCHBURG, VA.—We are officially advised that bids were received as follows on Feb. 15 by the Joint Committee on Streets and Sewers for the construction of a reinforced-concrete viaduct at Fifth St.: Stewart Contracting Co., $47,928; A. W. McClay, $55,949; Lane Bros. Co., $52,785; H. B. Odell, $52,856; Ohio Concrete Co., $50,549; H. J. Collier Co., $57,838; Lafferty & Weir, $49,557; Carolina Engineering Co., $57,414; MacArthur Bros. Co., $61,862; William Tunny, $44,631; Tiffany & Gault $60,025; Scott Bros., $47,907; Stanford Bros. & Ragland and E. T. D. Myers, $51,840; Curtis & Shumway, $51,134; R. M. Bibb, $59,036; John Ginder, $66,050; B. B. McGhee & Co., $47,779; Thiele Construction Co., $56,834; Jones & Adams, $51,914; Geanor & Caruthers, $47,163; R. J. Malone, Lynchburg, $41,129; Mathews-Curtis Co., $60,554; Wisley & Brawley, $49,588; A. D. O'Brien, $65,593; E. G. Nave Bros. Co., $49,979; Hall Craner Co., $59,963; Norcross & Edmonds, $44,217; W. W. Lindsay & Co., $49,880; Alsop & Pierce, $50,768; Jenks & Dresser, $48,995; G. B. Pennington, $45,043. H. L. Shaner is City Engr.

FAYETTEVILLE, N. C.—The Cumberland County Commissioners have awarded contract to the OWEGO BRIDGE CO., Owego, N. Y., at $33,233 for the construction of a steel bridge across Cape Fear River, 788 ft. long, one roadway and one sidewalk, built upon piers.

MAGNOLIA, MISS.—Bids will be received until March 1 for the construction of two steel bridges, one across Magee's Creek at Tylertown and other across Bogue Chitto River at Dillon. The former will be 255 ft., one steel span of 75 ft., rest of wood, 60 ft. on one side and 120 ft. on other. The latter will be 292 ft., three spans, one 90 ft. and two 40 ft., approaches to be of wood. W. C. Vaught is Clk.

KNOXVILLE, TENN.—The city will construct a bridge across First Creek at Glenwood Ave. The structure will probably be of concrete.

PADUCAH, KY.—GEORGE F. WEIKEL has been awarded the contract at $4,928, for constructing a 390-ft. long, 7-ft. in circumference brick culvert for the city.

CLEVELAND, OHIO.—Bids will be received by William F. Black, Clk. Bd. of Comrs. of Cuyahoga County, until 11 a. m., March 13, for constructing a concrete bridge on Fork road, Parma Township; also for a concrete arch on county line road, Mayfield Township, and for a concrete culvert on Harvard road, Newburg Township.

CLEVELAND, OHIO.—A. P. LAGRON was awarded the contract on Feb. 11 for the construction of the bridge to be placed over the Baltimore & Ohio R. R. tracks at the foot of Clark St., Cleveland, at about $150,000. The contract includes all the work except the erection of the iron structure. There is a large fill, besides the erection of the concrete abutments and piers.

CINCINNATI, OHIO.—The County Commissioners on Feb. 2 awarded the contract for constructing a bridge on Bogart road in Anderson Township to PETER PRAEONTER, at $5,529.

COSHOCTON, OHIO.—Bids are asked until March 15 by the County Commissioners for the construction of two bridges. Waddell & Harrington are Engrs., New Nelson Bldg., Kansas City, Mo.

ADDYSTON, OHIO.—The County Commissioners on Feb. 9 awarded contracts for building a new concrete bridge over Muddy Creek road at Addyston to the ROBERTSON CONSTRUCTION CO., at $7,440.

PORT CLINTON, OHIO.—Bids are asked until 1 p. m., March 2, by Henry Paffenbach, County Audr., for constructing the superstructure of a bridge over the Portage River on Monroe St, in Port Clinton, and the re-

moving, repairing and re-erecting of the present bridge at the site over Crane Creek, between Sections 33 and 34, Benton Township. Plans and specifications on file in the office of the Auditor and Surveyor, where they may be seen during office hours.

VINCENNES, IND.—Bids are asked until 2 p. m., March 2, by the Knox County Commissioners for the construction of a bridge over the city ditch on the Monroe city road. John Scott is County Audr.

BROOKVILLE, IND.—Bids are asked until March 1 by Charles A. Miller, County Audr., for the construction of the following arches and approaches: Sanes Creek arch, Harvey's branch arch, Johnson's fork arch, Rockdale bridge approaches, Butler's Run approaches, approaches to Pleasant Run bridge, Dry fork bridge approaches and Saltwell Creek bridge approaches.

NEWCASTLE, IND.—Bids will be received by the Board of Commissioners of Henry County until 10 a. m., March 1, for the construction of one new bridge and removal and erection of one old bridge. Plans, etc., are on file at the office of W. L. Risk, County Audr.

LANSING, MICH.—Bids will be received by Myles F. Gray, City Clk., until 4 p. m., March 1, for constructing a bridge on Cedar St., over the Cedar River. Plans, etc., are on file at the office of the City Engr.

BEARDSTOWN, ILL.—J. H. JAMES, Monmouth, Ill., has been awarded the contract, at $3,674, for the construction of a 180-ft. steel bridge over the Sangamon River for the county. Work is to be started about May 1.

TERREBONNE, MINN.—The HENNEPIN BRIDGE CO., Minneapolis, Minn., has been awarded the contract, at $4,100, for constructing a 150-ft. steel bridge over the Clearwater River at Terrebonne.

WASECA, MINN.—We are officially advised that the contract for the construction and repair of various bridges throughout the county was awarded on Feb. 16 by the Board of Commissioners of Waseca County to A. Y. BAYNE & CO., Minneapolis, Minn., at $4,835. The contract requires the construction of five new bridges and repairs to three old bridges. Theodore Peterson is County Audr.

MINOT, N. DAK.—The following bids were received on Feb. 4 by the County Commissioners for constructing a steel bridge on Bleyea Ave.: McDougall & Son, $5,700; Central States Bridge Co., Indianapolis, $5,744; Fargo Bridge & Iron Works, $6,300; A. Y. Bayne & Co., Minneapolis, $6,200; Security Bridge Co., Minneapolis, $6,000; Minneapolis Steel & Machinery Co., $5,740; Cook Construction Co., Des Moines (concrete bridge), $12,926; George W. Kemper, $7,400.

MONTESANO, WYO.—The contract for constructing a steel bridge over the Humptulips River has been awarded by the County Commissioners to CHARLES C. SHEELEY, McPhee Bldg., Denver, Colo., at $5,360, for the steel span and $3.40 per lin. ft. for the approaches.

JOPLIN, MO.—J. B. Hodgdon, City Engr., is preparing plans for six concrete culverts. Estimated cost, $5,500.

EVERETT, WASH.—Bids will be received until March 1 by the County Commissioners for retimbering the Snoqualmie bridge.

SPOKANE, WASH.—Bids will be received by the Board of County Commissioners until Feb. 26 for a bridge across Pine Creek, three miles south of Plaza.

TACOMA, WASH.—Bids were received as follows on Feb. 4 by the County Commissioners for the reconstruction of the Mashel River bridge on the Mount Tacoma-Canyon Road: NORTHWEST BRIDGE CO., $3,950; F. W. Stater, $3,994; Coast Contracting Co., $4,100; Joseph Wells, $4,220

FILLMORE, CAL.—Bids will be received by the Clerk of the Board of Supervisors of Ventura County, San Buenaventura, until 2 p. m., March 9, for the construction of the substructure and superstructure of a 7-span steel bridge over the Santa Clara River, between Bardsdale and Fillmore. The bridge will be about 919 ft. long, with a roadway 18 ft. in width, and a solid timber floor (McMillan patent), with 2½-in. asphalt wearing surface, twelve steel cylinders, four ft. in diameter, 16 ft. long, steel web braced; two concrete abutments partly reinforced. Some approximate quantities are: Structural steel, 433,370 lbs.; concrete, 533 cu. yds.; excavation in gravel to receive abutments and piers from seven to twelve ft. deep with water at any depth; corrugated steel bars, 2,717.5 lbs.; pine lumber, 149,770 ft. B. M.; 164 bearing piles, 40 ft. long, with 12-in. butts. Plans and specifications for this work are on file in the office of the Clerk of the Board of Supervisors. Copies of the plans and specifications may be obtained from the office of the County Surveyor. J. B. McCloskey is County Clk.

MARYSVILLE, CAL.—Bids will be received by the Board of Supervisors of Yuba County until 2 p. m., March 1, for the construction of a pony-truss steel bridge, one span 49 ft. center to center, with two approaches, one 18 ft. 6 ins. and one 17 ft. 6 ins.; also for a wooden bridge of the same dimensions, across Timbuctoo Ravine, at Timbuctoo, about 20 miles from Marysville. J. F. Eastman is Clk.

SALINAS, CAL.—Bids will be received by the Clerk of the Board of Supervisors until 2 p. m., March 2, for the construction of a reinforced-concrete culvert on Chualar-Gonzales Road in Gonzales Road district, Monterey County.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BAR HARBOR, ME.—Bids were received as follows on Feb. 20 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Bar Harbor, Me.: A. E. Lawrence Co., Bar Harbor, Me., $67,000; W. H. Fissell & Co., 1123 Broadway, New York, $55,900; Otto Nelson, Bangor, Me., $63,655; E. K. Whitaker, Bar Harbor, Me., $64,396; Ambrose B. Stannard, St. James Bldg., New York, $62,000; Woodbury & Leighton, Boston, Mass., $63,945; J. E. & A. L. Pennock, Philadelphia, $62,800.

PITTSFIELD, MASS.—The plans of J. M. Vance, 24 North St., have been accepted for an office building for the Agricultural National Bank on North St. Cost, $50,000.

BRISTOL, CONN.—Plans have been prepared for the Board of Fire Commisioners for a fire engine house, 75 x 65 ft., of brick construction. A chemical engine and hose and ladder equipment will be installed in the building as soon as it is completed. The Commissioners have asked for proposals from local contractors.

SYRACUSE, N. Y.—It is probable that bids will be received about March 1 by Esenwein & Johnson, Archs., 777 Ellicott Sq., Buffalo, for erecting a hotel at Syracuse. Cost, $600,000.

TROY, N. Y.—Bids are asked until Feb. 26 by the Board of Contract and Supply for reconstructing and altering School No. 2. Stanton P. Lee, 314 Cannon Pl., is Arch.

WHITE PLAINS, N. Y.—The State Bd. of Armory Commissioners at Albany has awarded contract for White Plains Armory to the WILMARTH BLDG. CO., 1170 Broadway, New York City, at $85,839.

NEW YORK, N. Y.—Bids are asked by the Armory Board until 2 p. m., March 8, for alterations and additions to the steam heating apparatus in the 69th Regiment Armory, Lexington Ave. and 25th St., Boro. of Manhattan; repairs, etc., to the lantern over drill hall of the 69th Regiment Armory, Lexington Ave. and 25th, Boro. of Manhattan; alterations and improvements in the 15th Coast Artillery District, Boro. of Brooklyn.

A garage of nine stories is to be erected on the east side of Broadway, north of 57th St., on the "L" plot running through to 58th St., for the Doan Realty Co. The building will have a frontage of 70.2 ft. on Broadway, and 25 ft. on 57th St. The building has been leased to the Peerless Motor Car Co. The cost is estimated at $130,000.

Plans have been filed for a 5-story house, to be built at 8 East East 79th St. for Heinrich Schniewind, Jr., of Greenwich, Conn. It is to be of brick and granite of the Italian Renaissance type, with a facade finished with bays and balconies, set between two tall pilasters, with capitals of composite design. It will have an American basement entrance, with a vestibule and stair hall. The second story will be fitted with a dining room, a drawing and music room and a sitting room. The building will have an elevator. The structure will cost $50,000. Henry C. Pelton is Arch., 1133 Broadway.

Plans have been filed with the Buildings Department for a 9-story fireproof apartment house to be built for the Gracehull Realty Co. on 110th St., east of Broadway, from designs by Waid & Willauer, Archs., 156 Fifth Ave. It is to have a frontage of 108 ft. and a depth of 100 ft., with facades of brick, finished with limestone and terra cotta. It will contain 28 suites of apartments, and is to cost $350,000.

Plans for a 6-story apartment house to be built for the Brown Construction Co., Robert Altman Pres., at the corner of Audubon Ave. and 178th St., have been filed. It is to be of French Renaissance design, of ornamental brick, with stone trimmings. It will have a frontage of 75 ft. and a depth of 90 ft. and will cost $150,000. Lorenz F. J. Weiher, 103 East 125th St., is Arch.

A 12-story store, loft and office building will be erected by the Improved Property Holding Co., Henry Corn, Pres., opposite Madison Square Garden. It will occupy the premises, 23 and 25 East 26th St., 56, 58 and 60 Madison Ave. and 18 and 20 East 27th St., which comprises about 15,000 sq. ft.

NEW YORK, N. Y.—In the Buildings Department plans have been filed for a 12-story commercial building to be built for the Twenty-fifth Street Construction Co., at 151 to 155 West 25th St. It is to be of brick, finished with limestone trimmings, having a frontage of 59 ft. and a depth of 90 ft., with an extension. The building will cost $300,000.

ATLANTIC CITY, N. J.—Dr. T. D. Taggert, 21 South Illinois Ave., and Henry Widerhold, of the Vulcanite Paving Co., of Philadelphia, Pa., have secured a site on Illinois Ave. on which it is proposed erecting a $50,000 apartment house.

NEWARK, N. J.—The New York & New Jersey Telephone Co. will erect a 9-story structure, with a frontage of about 96 ft. on Washington St. and a depth of about 156 ft., to cost approximately $500,000. The construction will be started this spring. The telephone building will be of red brick, with granite, limestone and terra cotta trimmings. It will be of fireproof construction, the use of wood being limited to trim around windows and doors.

WILKINSBURG, PA.—The Wilkinsburg Natatorium Co. has had plans prepared by F. G. Scheibler, 700 Wood St., for a brick natatorium, to be erected on Ross St., Wilkinsburg, and cost $45,000.

PHILADELPHIA, PA.—Work will be begun immediately on a 4-story building of ornamental exterior at 1227 Chestnut St., to serve as a restaurant for Christian Sautter, who purchased the property about two years ago from the Commonwealth Title Insurance & Trust Co. for a consideration of about $225,000. The building will cover the whole lot, which measures 22 x 150 ft. W. J. DOYLE & CO. have the contract for the work, which will cost about $50,000. Shore & Dodge are Archs.

Plans for a large addition to the Second Regiment Armory, on Broad St., below Susquehanna Ave., are being prepared in the office of Rankin, Kellogg & Crane, 1012 Walnut St. The extension measures 100 x 200 ft., and will give additional space, 100 x 160 ft., to the drill floor, which, after the erection of the addition, will provide an auditorium for conventions and exhibitions.

The Gloucester Ferry Co., of Gloucester City, N. J., will soon start work building its new ferry house at the Philadelphia terminus at South St. The building is to cost $40,000 and be erected of steel frame and corrugated iron and to be provided with overhead walks for use of the passengers to and from the elevated trains, so they can embark on the upper deck of the boats.

PITTSBURG, PA.—Bids are asked by Maj. H. C. Newcomer, Corps Engrs., U. S. A., Pittsburg, until noon, March 17, for building four lock houses, two at Lock 2, Allegheny River, near Brilliant, Pa., and two at Lock 2, Monongahela River, Braddock, Pa.

ANNAPOLIS, MD.—Bids are asked until 11 a. m., March 20, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing one general ward and two isolation ward buildings at the U. S. Naval Hospital, Annapolis. Specifications are on file at the office of Engineering News, New York.

MANCHESTER, VA.—The Supervising Architect of the Treasury, Washington, D. C., has awarded contract for the construction of a post-office building at Manchester, Va., to BARNES BROS., Hamilton, Ohio, at $41,240. Time, March 15, 1910.

*WHEELING, W. VA.—Bids are asked by the Clerk of the Board of Education, until 5 p. m., March 10, for heating and ventilating apparatus for the new high school building at Wheeling. Giesey & Haris, Wheeling, are Archs.

SALISBURY, N. C.—Bids were received as follows on Feb. 17 at the office James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Salisbury, N. C.: Miles & Bradt, Atlanta, Ga., $122,300; Ambrose B. Stannard, New York, $124,000; King Lumber Co., Charlottesville, Va., $129,960; Norman Underwood, Durham, N. C., $125,690; James de Vault & Son, Canton, Ohio, $123,867; Jones & Adams, Lynchburg, Va., $134,000; Blue Ridge Construction Co., Asheville, N. C., $133,900; Gude & Co., Atlanta, Ga., $142,600; George W. Ashley Co., Baltimore, Md., $117,000; John G. Unkefer, Minerva, Ohio, $125,570; George A. Clayton, Atlanta, Ga., $128,000; J. A. Jones, Charlotte, N. C., $140,389; D. J. Phippe, Newport News, Va., $130,000; M. P. Wells, Philadelphia, $125,853; Lazenby & McCanliss, Salisbury, N. C., $132,471; Frost & Dalton, Asheville, N. C., $125,846; Central Carolina Construction Co., Greensboro, N. C., $128,000. Time, Sept. 1, 1910.

ATLANTA, GA.—Preliminary plans are being prepared for the erection of a club house for the Atlanta Boys' Club, to cost about $50,000. Contract will probably be let about April 15. C. E. Choate, 629 Chandler Bldg., is interested.

MOISE DE LEON, Fourth National Bank Bldg., has secured the contract to erect the superstructure of the Wesley Memorial Church, at Ivy St. and Auburn Ave., at $120,000.

PENSACOLA, FLA.—Bids are asked until March 8 by Col. F. L. Denny, Q. M., U. S. A., Washington, D. C., for constructing two sets of officers' quarters at the Navy Yard, Pensacola, Fla.

ST. AUGUSTINE, FLA.—Following are the bids received on Feb. 8 at the office of N. F. Bryan, Chn. Bd. of Control, Jacksonville, for erecting a school for deaf and blind at St. Augustine from plans of Edwards & Walter, of Atlanta, Ga. It will be brick stuccoed on exterior, terra cotta trimmings, tile roof, sanitary plumbing and will have fire protection: General construction—Miles & Bradt Co., Atlanta, Ga., $68,300; Gude & Co., Atlanta, Ga., $70,000; J. B. Corn & Co., Atlanta, Ga., $75,500; Nicholas Ittner, Atlanta, Ga., $68,633; George W. Waring, Columbia, S. C., $68,507; JOHN J. CAIN, Columbia, S. C., $67,427 (awarded contract); E. L. Hertzog, Spartanburg, S. C., $74,897; Halsaman Woodcock Co., Jacksonville, $74,800; W. T. Hadlow Co., Jacksonville, $67,977; W. P. Richardson & Co., Jacksonville, $75,000; Little & Phillips, Cordele, Ga., $70,500; Falls City Construction Co., Louisville, Ky., $75,500. Steam heating—D. L. Rethbone, Jacksonville, $3,597; Coons & Golder, Jacksonville, $6,127; Atlanta Steam Heating Co., Atlanta, Ga., $2,858; W. B. GUIMARIN & CO., Columbia, S. C., $2,600 (awarded contract).

BIRMINGHAM, ALA.—Miller & Martin, Title Guarantee Bldg., have prepared plans for a brick club to be erected for the members of the Phoenix Club, to be erected at 20th St. and 15th Ave. Cost, $40,000. B. F. Ezekiel is Secy.

A building permit has been issued to Frank White authorizing the construction of a 4-story brick building to cost $43,500. The structure will be erected on the corner of First Ave. and 23d St., and will be used as a warehouse.

GREENVILLE, MISS.—Bids were received as follows on Feb. 18 at the office of James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Greenville, Miss.: Gus Hecker, Greenville, Miss., $69,416; M. S. Hasie Construction Co., Dallas, Tex., $69,600; Charles Hoertz & Son, Grand Rapids, Mich., $82,198; King Lumber Co., Charlottesville, Va., $82,877; David Getaz Son & Co., Knoxville, Tenn., $77,000; Miles & Bradt Co., Atlanta, Ga., $75,000; Gude & Co., Atlanta, Ga., $75,800; Gindele Bros. & Co., Chicago, $74,280. Time, Feb. 1, 1910.

CINCINNATI, OHIO.—Bids are asked until noon, March 2, by the Board of Public Service for materials for the completion and equipment of the tuberculosis buildings at the Branch Hospital. J. J. Wenner, Clerk.

TOLEDO, OHIO.—The H. J. SPIEKER CO., Huron St., has been awarded the contract to construct the museum of art building, and will begin to break ground for the structure at once. The company agrees under the contract to have the building under roof by Oct. 1. The contract was let by the Building Committee, composed of E. D. Libbey, C. S. Ashley, A. J. Secor, Aaron Chesbrough and George W. Stevens. It has been decided to construct the building of white marble. The terrace and steps will be constructed of granite on which base will stand gleaming a pure marble structure. E. B. Green and Wachter are Archs.

CLEVELAND, OHIO.—Bids for the construction of the new south public library branch at Scranton Road and Clark Ave. were opened by the Building Committee of the Public Library Board on Feb. 13, but all were rejected as they were much above the estimate. Bids were received on the differt contracts and for the whole job. Andrew Carnegie has signified that he will give $40,000 toward the building, but the lowest bid was $58,884 by Andrews Bros., of this city. It was decided by the Committee to remodel the plans so that it may come within the estimate. Some of the bids for the entire job were as follows: (a) for limestone, (b) for sandstone: Andrews Bros. (a) $58,884; Griese & Walker, (a) $62,533, (b) $61,533; C. N. Griffin & Co., (a) $64,622, (b) $63,422; Bliss & Griffith, (a) $60,600, (b) $59,800; John Grant & Sons, (a) $60,808. Whitefield & Bliss, Archs., 160 Fifth Ave., New York, will be asked to remodel the plans and new bids will be advertised for.

YOUNGSTOWN, OHIO.—We are officially advised that bids were received on Feb. 16 at the office of the County Auditor, Youngstown, for constructing the proposed Mahoning County jail at Youngstown. The contract has been let to HELLER BROS. CO., of Youngstown. The building will have two wings, the front wing to be three and the rear five stories high. The building will be fireproof, 123 x 50 ft. Owsley, Boucherie & Co., Maloney Block, Youngstown, are Archs. W. H. Ruhlman is Chn. Mahoning County Bldg. Comn.

BLOOMINGTON, IND.—The AIRING & SONS CONSTRUCTION CO., of Cleveland, Ohio, has been awarded the contract to erect the College Ave. M. E. Church, at $69,929. Bids for wiring, heating, plumbing, etc., are yet to be let.

LEBANON, IND.—Bids are asked by the Commissioners of Boone County until April 5 for construction of an addition to and for remodeling the county jail. B. F. Heidrick is County Audr.

INDIANAPOLIS, IND.—Bids are asked by the Mayor and Board of Public Works until noon, March 8, for construction of the proposed city-hall. Estimate cost, $600,000. Rubush & Hunter, American Central Life Bldg., are Archs.

The Federal Government has placed in the Sundry Civil Appropriation Bill the following amounts for buildings in Indiana upon which bids will be asked as soon as plans are completed: Bedford, $15,000 additional; Brazil, $45,000; Columbus, $45,000; Connersville, $40,000; Edwood, $30,000, additional; Jeffersonville, $56,000; Kokomo, $40,000, additional; Marion, $20,000, additional; Michigan City, $15,000, additional, and Peru, $40,000.

FLINT, MICH.—Bids are asked until March 15 by C. H. Wisner, Chn. Bldg. Com., to erect a Masonic Temple. H. B. Clement, 45 State St., Detroit, Mich., is Arch.

PEORIA, ILL.—J. M. Baillie, Arch., Y. M. C. A. Bldg., is preparing plans for a residence to be erected for the Rev. John L. Spaulding on Glen Oak Ave., and to cost $60,000.

CHICAGO, ILL.—The Chicago & Alton R. R. Co. is planning to build new freight terminals at Chicago, Kansas City and Joliet. The cost of these three yards exclusive of real estate, will be $300,000, $85,000 and $200,000, respectively, for Chicago, Joliet and Kansas City. W. D. Taylor is Ch. Engr., Chicago.

William M. LeMoyne, 50 Scott St., will erect a $300,000 apartment house on Scott St. Holabird & Roche, 1618 Monadnock Bldg., are Archs.

Marshall & Fox, 164 Dearborn St., have been engaged by Mrs. B. H. Palmer to prepare plans for an apartment house which she is planning to erect in the Lake Shore Drive district at a cost of $250,000.

CHICAGO, ILL.—A 20-story office and banking building will be erected on the Lucius B. Otis property at the southwest corner of La Salle and Madison Sts., covering the site of the Otis block. It has not been decided how soon construction will be commenced.

NEWTON, IOWA.—Bids were received by the Board of Supervisors of Jasper County on Feb. 18 for the erection and completion of a 3-story court-house. The contract has been let to JAMES ROWSON & CO., of Iowa City, Iowa. Proudfoot & Bird, Flynn Bldg., Des Moines, Iowa, are Archs.; Frank Sellman is County Audr.

DETROIT, MINN.—Contracts for erecting a school have been awarded as follows: General construction to EVENSON & MADSEN, of Minneapolis, and heating, ventilating and plumbing, covering both the new and the old buildings, to the ANDREWS HEATING CO., of Minneapolis. Estimated cost, $50,000. Fremont D. Orff, Minneapolis, is Arch.

ALEXANDRIA, MINN.—T. Jacobson, Pres. of the Farmers' National Bank, city, is receiving bids on the construction of a 2-story cutstone or granite bank. Plans were drawn by P. J. Linhoff, Arch., German-American Bank Bldg., St. Paul, Minn. It will have steam heating, electric lighting, marble and tile work. Cost, $50,000.

ST. PAUL, MINN.—The general contract for erecting the superstructure for the 11-story fireproof hotel for the St. Paul Hotel Co., L. P. Ordway, city, Pres., has been awarded to W. J. HOY & CO., 311 Chamber of Commerce, St. Paul. The contract for furnishing terra cotta has been awarded to the NORTHWESTERN TERRA COTTA CO., Chicago, on a bid of $22,500. Reed & Stem, Endicott Bldg., St. Paul and New York, are Archs. Cost, $1,000,000.

E. L. Masqueray, Arch., 312 Dispatch Bldg., has awarded the contract for the general construction of the pressed brick and cutstone church for St. Louis Roman Catholic Church, at Tenth and Cedar Sts., to LAUER BROS. and C. O. MORIN, foot of Chestnut St., St. Paul. Cost, $60,000.

C. H. Johnston, Arch., Manhattan, Bldg.,

is preparing plans for a 2-story gymnasium for Hamline University here. George H. Bridgman is Pres. It will be 92 × 138 ft., of pressed brick and cut stone construction, having an assembly hall and swimming pool. Cost, $35,000.

H. Kretz & Co., Archs., New York Life Bldg., are preparing plans for a 4-story reinforced-concrete fireproof store building to be built at Seventh and Cedar Sts. It will have steam heating, electric lighting, electric passenger elevator and marble and tile work. Cost, $60,000.

J. T. McMillan & Co., pork packers, St. Paul, are taking figures on a warehouse and cold storage building to be built here. Plans were prepared by Madison Cooper & Co., Watertown, N. Y., C. A. P. Turner, Minneapolis. It will be five stories high of reinforced-concrete fireproof construction, 90 × 110 ft. Cost, $45,000.

ST. LOUIS, MO.—Wall Bros., submitted the lowest bid on Feb. 3 to the Building Committee of the Board of Education for erecting the Hamilton School on Fair Ave. and Green Lea Pl., at $98,615.

Plans have been submitted to the President of the Board of Public Improvements for the municipal courts building west of the new City Hall, Isaac S. Taylor, Arch., 715 Locust St. The building is to have four stories, a basement and attic, and with the jail, which will have five stories and the basement and attic, will cost about $1,500,000, not including the ground. The main building is to be 312 × 231 ft. and the jail is to be 44.5 × 185 ft. The main building will have a tower 185 ft. 9 ins. high. The tower will have six separate stories above the main building, which will give the building eleven stories, including the attic. The tower rooms, if finished for use, will have floor area of 25 × 200 ft. Five wings of about 18 × 40 ft. each will branch off from the main building at each corner and the middle of the building on the south. The construction will be of brick, with cutstone trimmings and granite base and steps.

HANNIBAL, MO.—J. J. Cruikshank is Chmn. Bldg. Com. appointed to have charge of the erection of the proposed city hall. Estimated cost, $75,000.

ST. LOUIS, MO.—The Campbell Iron Co. is building two 3-story and basement warehouses and one 2-story warehouse, each 41 × 134 ft. They are located at 809-819 Cass St. Walls and floors of heavy construction. All windows on exposed sides are of metal frame and wire glass. The buildings are so connected by openings covered by fire-doors that they can be used as practically one structure. Electric elevators to be used. Cost, $75,000. J. M. Dunham is Arch. Contractor is CHAPLINE REALTY & CONSTRUCTION CO., St. Louis.

DENVER, COLO.—Dr. E. W. Collins is planning to erect a 4-story hotel on Welton and 14th Sts., to cost $100,000.

A building is to be erected at the corner of 15th and Wyncoop Sts. by the L. Wolff Mfg. Co., of Chicago, at a cost of $50,000. The structure will be five stories and basement. Red pressed brick will be used for the exterior. The entire building will be used for the Denver branch of the L. Wolff Mfg. Co., now located at 1533 Blake St.

Fallis & Stein, Archs., Colorado Bldg., have prepared plans for a 12-story hotel to be erected on 18th St. and Broadway, to cost $500,000. A. J. Halter and W. B. Walton are local representatives of Eastern capitalists who will erect the hotel.

Harry W. Humphreys, 1758 Stout St., proposes to erect at 1534 to 1538 Wilton St., a 4-story reinforced-concrete office building. William E. Fisher & Bro., Railway Exchange Bldg., is Arch.

The New York Realty Co. will erect a 5-story hotel on East 14th St. and Sherman Ave., to cost $75,000. Walter Rice, Mack Blk., is Arch.

*BOULDER, COLO.—Bids are asked until 3 p. m., March 25, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction, complete, of U. S. post-office at Boulder.

FORT STEVENS, ORE.—The contract for the construction, plumbing, heating and electric wiring and fixtures of a gymnasium and bowling alley and four double sets of non-commissioned officers' quarters and the construction, plumbing and electric wiring and fixtures of a double set of firemen's quarters at this post has been awarded to E. GUSTAFSON, of Astoria, at a total bid for the entire work of $46,600. First Lieut. John P. Keeler, Constr. Q. M., Fort Stevens.

SAN FRANCISCO, CAL.—The Board of Trustees of the Mechanics' Institute have called for bids for the building which is to be erected on the old library site on Post St., between Kearny and Montgomery Sts., and to cost about $300,000. The lot has a frontage of 82 ft., with a depth of 107 ft. It is to be a 9-story Class A building. Its front is to be of white Manti stone, "T" shaped, with a light well in either side. There will be stores on the first floor, while the second and third floors will have the library, reading, class, directors' room and secretary's office. The six upper floors will have 90 offices. Construction will start the first of the month. Albert Riis is Arch.

SAN FRANCISCO, CAL.—The "Municipal Record" states that the contract for constructing the Garfield Primary School has been let to S. L. HANSBROUGH, 1028 Market St., at $63,000. The contract for plastering has been let to KNOWLES & KAISER, at $11,200.

MONTREAL, QUE.—The contract for the new Montreal jail was awarded to J. B. PAUZE & CO., the lowest bidders, for $810,000. Marchand & Brassard, 164 St. James St., Montreal, are Archs.

WINNIPEG, MAN.—Bids are asked until Feb. 27 by William Wallace Blair, Arch., Nanton Bldg., for the erection of a 6-story and basement brick building, 50 × 120 ft., on Main St. South.

Bids will be received at same time and place for the erection of a 5-story and basement brick, stone and fireproof apartment block on the corner of Roslyn Road and Osborne St.

SASKATOON, SASK.—Bids are asked by Napoleon Tessier, Secy. Dept. of Public Works, Ottawa, Ont., until Feb. 26, for constructing post-office, custom-house, etc., at Saskatoon.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

*FORT ANDREWS (Boston post-office), MASS.—Bids are asked by Capt. R. H. Rolfe, Constructing Q. M., U. S. A., until 10 a. m., March 19, for constructing extensions to water and sewerage systems, at Fort Andrews, Peddocks Island, Boston Harbor.

WHITE PLAINS, N. Y.—Bids will be received by the Board of Water Commissioners, John N. Heeney, Supt., until March 8, for furnishing and installing a mechanical pressure filtration plant.

NIAGARA FALLS, N. Y.—Bids for the construction and equipment of the new water-works system and filtration plant to be built here will be received about April 1. Detailed plans are under preparation by W. D. Robbins, City Engr., and Walter McCulloch, Consulting Engr.

*NEW YORK, N. Y.—Bids are asked by the Board of Water Supply until 11 a. m., March 18, for Contract 47 for the construction of the Wallkill siphon, a deep pressure tunnel in rock, 14½ ft. inside diameter and about 23,400 ft. long, crossing under the valley of the Wallkill River, with six shafts from 350 to 480 ft. in depth, and adjacent grade tunnels, and stretches of plain concrete conduit known as cut-and-cover aqueduct. The work is located in the towns of New Paltz and Gardiner, Ulster County, New York.

Bids are also asked until 11 a. m., March 22, for the construction of Turkey Mountain grade tunnel, a tunnel on the hydraulic gradient, 17 ft. high × 13½ ft. wide and 1,400 ft. long; Croton Lake pressure tunnel crossing under Croton Lake, 14 ft. inside diameter, and about 2,600 ft. long, with two shafts 510 to 560 ft. in depth; a blow-off tunnel about 400 ft. long, discharging into Croton Lake; and three sections, aggregating about 2,000 lin. ft., of cut-and-cover aqueduct, 17 ft. high × 17½ ft. wide inside, situated about six miles northeast of Croton-on-Hudson, in the town of Yorktown, Westchester County, New York. J. Waldo Smith is Ch. Engr. Bd.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., March 8, for furnishing, delivering and laying water-mains in various streets and hauling and laying water-mains in various streets.

*WEBSTER, N. Y.—We are officially advised that bids were received as follows on Feb. 20 for the construction of a system of water-works, consisting of about six miles of c.-i. pipe, pumping station, a small reservoir, stand pipe, power pumps and other appurtenances, bids received for the whole work, including or excluding the stand pipe and pumping equipment and separately for these. Complete system: Fields, Barker & Underwood, Inc., Philadelphia, Pa., $40,030; Dean & Havens, Olean, N. Y., $30,671; F. H. Falls, Rochester, N. Y., $41,600; Holohan & Dailey, Rochester, $34,485;. Piping, reservoir, pump-house and stand-pipe: Houston Barnard, Rochester, $30,480; McHarg-Barton Co., New York, $32,700; Robert Carter Co., Brooklyn, N. Y., $33,000; Repton & Murphy, Rochester, $29,150; C. F. Hookway, Syracuse, N. Y., $28,900; Delaney-Roberts Co., New York, $30,093; Whitmore, Rauber & Vicinus, Rochester, $31,600; Goodale & Jemison, Schenectady, N. Y., $33,891. Piping, reservoir and pump house: Fritz & Partridge, Dover, N. J., $26,289; C. R. Lewis, Ilion, N. Y., $24,795; Kuhn & Applegate, Bradford, Pa., $26,375; Holler & Shephard, Rochester, N. Y., $24,982; Burt Warren, Honeoye Falls, N. Y., $26,992. Stand-pipe: Duffs Patents Co., Inc., Pittsburg, Pa., $2,800; Canton Boiler & Engine Co., Canton, Ohio, $2,090; Des Moines Boiler & Iron Co., Des Moines, Iowa, $2,088; Kinnicutt Water Supply Co., Chicago, Ill., $2,650; Walsh's Holyoke S. B. Wks., Holyoke, Mass., $2,900; Standard Boiler & Pt. I. Co., Niles, Ohio, $2,413; Chicago Bridge & Iron Co., Chicago, Ill., $2,200; Petroleum Iron Works Co., Sharon, Pa., $2,300; Ohio Boiler Co., Girard, Ohio, $2,500; Connery & Co., Ltd., Philadelphia, Pa., $1,975; Walsh's Boiler & Iron Wks., Springfield, Mass., $2,500; Sharon Boiler Wks., Sharon, Pa., $1,974. Pumping equipment: Jeansville Iron Wks. Co., Hazleton, Pa., $2,490; N. C. Davison Co., Pittsburg, Pa., $2,363 (not set); Fairbanks, Morse & Co., Cleveland, Ohio, $2,500; D'Olier Eng. Co., Philadelphia, Pa., $1,800 (volute pumps); Goulds Mfg. Co., Seneca Falls, N. Y., $2,520; Rumsey & Co., Ltd., Seneca Falls, $2,362. Several informal bids were also received. Knight & Hopkins, Rome, N. Y., are Engrs.

NEW BRUNSWICK, N. J.—The Water Board has awarded contract for supplying about 8,000 ft. of 6 and 8-in. iron pipe and 1,200 ft. of 20-in. pipe to M. J. DRUMMOND & CO., 182 Broadway, New York, at $22.97 per ton.

SOUTH ORANGE, N. J.—The contract for laying water mains in Sherman Place, Prospect St. and Turrell Ave. has been awarded to LUDWIG BATT, of 224 Irvington Ave.

PEDRICKTOWN, N. J.—The Township Committee has awarded contract to PEDRICKTON WATER CO. for fire protection of the town for a term of five years.

An ordinance has been passed granting the company the power to lay mains and conduits throughout the town.

BEAVER, PA.—Bids were opened by the Town Council, George R. Bovard, Secy., on Feb. 9 for furnishing material and constructing an addition to the pumping station and installing a 1,000,000-gallon triplex pump and gas engine to operate same. The contract was awarded to GEORGE S. McFALL, of Beaver Falls, at $9,669. J. P. Leaf is Boro. Engr., Rochester.

PHILADELPHIA, PA.—The city on Feb. 20 awarded contracts to the MILLARD CONSTRUCTION CO., Pennsylvania, Bldg., for the construction of the pumping station at Seventh St. and Lehigh Ave., at $360,000, and for excavation and laying pipe. This contract is in connection with the installation of the high pressure fire system in the northeastern portion of the city. List of bidders noted on Jan. 28. George R. Stearns is Dir. Pub. Wks.

BALTIMORE, MD.—JOSEPH SCHAMBERGER, 2122 East Baltimore St., was awarded the contract on Feb. 17, at $23,890 for constructing the water tower station on South Gay St. for the high-pressure fire service pipe-line system by the Board of Awards.

ROCK HILL, S. C.—The city has voted $250,000 of bonds for maintenance of water-works and construction of sewer system. John T. Roddey is Mayor.

SENECA, S. C.—The city will soon award contracts for the construction of water and light plants. Bonds for $25,000 have been voted.

SPARTANBURG, S. C.—Bids will be received until March 1 by the Water Works Commission, A. C. Cannon, Chn., for furnishing and erecting at the pumping station water-tube boiler, 110 nominal HP. capacity, and a 2,000,000-gallon high-duty pumping engine. W. B. Howe is Consult. Engr., Spartanburg.

ALBANY, GA.—The Special Surface Drainage Committee of the City Council let the contract on Feb. 4 for the larger sizes of pipe to be used in the city's new drainage system. The contract is for about three-quarters of a mile of reinforced-concrete pipe. The contract was let to the REINFORCED CONCRETE PIPE CO., of Jackson, Mich., at about $8,000.

TAMPA, FLA.—The Tampa Water-Works Co., Chester McFarland, Mgr., will award contract soon for the erection of a 40-ft. brick addition to water-works plant on river. A pump with capacity of 5,000,000 gallons per day will be installed. R. D. WOOD & CO., 400 Chestnut St., Philadelphia, Pa., has contract for pipe to be used in extension of mains.

GRENADA, MISS.—The city is considering issuing bonds for improvements to water-works, etc. Estimated cost, $35,000.

BINGHAMPTON (Memphis post-office), TENN.—The city has voted $25,000 of bonds for construction of water-works, electric-light and sewer systems. Estimated total cost of water-works, $10,924. George B. Stewart is Mayor.

PAINTSVILLE, KY.—The Paintsville Water & Light Co. has been incorporated with $300,000 capital stock by Edwin D. Land, L. D. Brooks, Martin Garnet, all of Philadelphia, Pa.

RICHMOND, KY.—The Richmond Water & Light Co. has let the contract for constructing the new reservoir to MASON HANGER & CO., Richmond.

TOLEDO, OHIO.—Bids will be received until March 11 by the Board of Public Service, Reynold Voit, Secy., for furnishing material, except the c.-i. pipe and valves, which will be furnished by the city, and constructing a reinforced-concrete culvert across Delaware Creek and a reinforced-concrete gate chamber, together with the laying of about 1,250 ft. 60-in. and 75 ft. 12-in. c.-i. pipe. Contract No. 12 of the improvement of the water service. Bids on labor and material must be stated separately.

LORAIN, OHIO.—Bids were opened by the Board of Public Service on Feb. 13 for 120 tons of 6-in. water pipe for East Erie Ave. and other streets in the city. James B. Clow & Co., of Chicago were the low bidders. The bids were: Massillon Iron & Steel Co., $24 per ton; The U. S. Cast Iron Pipe & Foundry Co., $23.60; James B. Clow & Co., $23.15.

SHIRLEY, IND.—The citizens on Feb. 5 voted to issue bonds for the construction of water-works. G. C. Wallace, of Anderson, Ind., is Engr. Adam Durham is Town Clk.

SUMMIT, ILL.—Bids will be received until March 1 by the President Board of Trustees for furnishing a mechanical equipment for pumping water from a deep well to a tank, 125 ft. high, the well being 10-in. bore for the first 200 ft., 8-in. bore for 400 ft., 6-in. bore for 400 ft. and 5-in. bore to a depth of 1,545 ft. James Johnstone is Village Clk.

WAUKESHA, WIS.—Bids will be received until March 4 by the Board of Water Commissioners, Fred. Phelps, Secy., for furnishing c.-i. pipe, about 18,000 ft., and all necessary fittings and special castings; also valves, valve-boxes and hydrants.

EAST MILWAUKEE (Milwaukee Post-office), WIS.—Bids are asked until 8 p. m., March 6, by Oscar A. Reuther, Village Clk., for laying 3,514 ft. of 6-in. water mains.

ANAMOSA, IOWA.—Bids will be received about March 1 by the Water Committee, George Beaman, Chn., for water-works improvements, including storage reservoir, meters, mains and appliances. George C. Morgan is Engr., 169 Jackson Boulevard, Chicago, Ill.

EARLHAM, IOWA.—The citizens on Feb. 10 voted to issue bonds for the construction of water-works and an electric light plant.

MARION, KAN.—The citizens on Feb. 9 voted to issue $60,000 of bonds for the construction of water-works and an electric light plant.

EDGEMONT, S. DAK.—The INTERMOUNTAIN BRIDGE CO., of Tecumseh, Neb., has secured the contract for constructing the water-works system here at $17,850.

STEVENSVILLE, MONT.—Bids will be received until March 25 by the Town Council for constructing a system of water-works. George T. Baggs is Town Clk. J. H. Kyd is Engr., Butte, Mont.

ST. LOUIS, MO.—The [illegible] St. Louis Water Co. has awarded the [illegible] tract for 500 tons of 8-in., Class B, c.-i. [illegible] for March delivery, to the U. S. CA[illegible] IRON PIPE & FOUNDRY CO., at $24.50 [illegible] ton, f. o. b. St. Louis. T. R. Cullinan [illegible] Mgr., St. Louis.

HOPE, ARK.—The contra[illegible] furnishing the boilers for the water-w[illegible] plant was awarded on Feb. 11 to CAS[illegible] HEDGES, of Chattanooga, Tenn., at $[illegible]

ENGLAND, ARK.—The E[illegible] Artesian Well Co. has been organiz[illegible] with $10,000 capital stock. J. E. Hicks [illegible] Pres.; R. J. Langford is Secy.

DALLAS, TEX.—The Boar[illegible] Municipal Commissioners has awarded [illegible] contract to C. W. OLCOTT, of Dallas, at [illegible] 25 for laying four miles of 18 and 16-in. [illegible] water mains from new pumping station [illegible] through part of East Dallas. Bids w[illegible] opened on Feb. 12.

*MART, TEX.—Bids will [illegible] received by R. W. Bass, Mayor, for th[illegible] purchase of all material necessary in the [illegible] struction of a system of municipal water-[illegible] for said town, which will include ste[illegible] tower, return tubular boilers, cast-[illegible] pipe and fittings, five hydrants and wat[illegible] valves, water-works pumps, boiler feed[illegible] lead, oakum and other water-wo[illegible] supplies. Specifications can be had by [illegible] addressing O'Neil Engineering Co., Dallas, [illegible]

MINCO, OKLA.—See item und[illegible] Light and Power Plants.

BELLINGHAM, WASH.—The [illegible] Engineer has been authorized by [illegible] Water Board to prepare an estimate o[illegible] cost of extending an 8-in. water main from the end of the proposed 24-in. pipe to James St.

MARSHFIELD, ORE.—This pla[illegible] is planning to install a salt water fire protection system.

LOS ANGELES, CAL.—A reservoir is to be constructed on the top of McKinley hill, in Elysian Park, to provide for the proper irrigation of trees in the higher sections of the park. The City Council on Feb. 2 passed the ordinance for construction on the recommendation of the Park Commission.

SAN BERNARDINO, CAL.—H. F. GANSNER, San Bernardino, has been awarded contract at $5,900 for sinking well for the city at reservoir site. Other bidders were: A. Caty, Los Angeles, $8,000; W. D. Anderson, San Bernardino, $7,500; Lapp & Gifford, Los Angeles, $7,300. The contract calls for sinking the well 1,000 ft. with an 18-in. casing as far as possible, not less than 500 ft., and then reducing in size as it becomes necessary.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

FORT BANKS (Winthrop post-office), MASS.—Bids are asked until 10.30 a. m., March 19, by Capt. R. H. Rolfe, Constructing Q. M., U. S. A., for constructing extensions to the sewerage system at Fort Banks.

*FORT ANDREWS, MASS.—See item under Water Supply—Irrigation.

TONAWANDA, N. Y.—The Board of Public Works on Feb. 13 awarded the contract for constructing the sewer system in Gastown to LAWRENCE SCHULTZ, of Fredonia, N. Y., at $16,000.

FORT HAMILTON (Brooklyn post-office), N. Y.—Bids are asked by Lieut. Benjamin H. Kerfoot, Q. M., U. S. A., until 11 a. m., March 3, for repairing 18 catch-basins on the military reservation at Fort Hamilton.

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Boro. Pres., until 11 a. m., March 3, for constructing sewers and sewer basins in various streets.

*ASBURY PARK, N. J.—Plans and specifications are on file at the office of Engineering News, New York, for the construction and equipment of sewage disposal works. Bids are asked until March 1.

*MILLVILLE, N. J.—Bids are asked by the Common Council until 7.30 p. m., April 2, for construction of a sewage purification plant at Millville. Charles B. Neal is Chn.

ALLENTOWN, PA.—The City Council has received from Charles D. Weirbach, City Engr., plans and specifications for the construction of a complete system of sanitary sewers in Allentown and for building the necessary intercepting sewers, etc. Estimated cost of the work is as follows: Collecting system of vitrified pipe sewer within city, $670,000; pumping station and equipment, $38,000; concrete pipe from pumping station to disposal works and high level interceptor, complete, $165,000; 2,000,000 gallon septic or settling tank, $28,000; sprinkling filter, 2½ acres, 6-ft. deep, $78,000; 500,000-gallon settling basin, with piping, $8,000, and land, rights of way, laboratory, sludge disposal, levee roads, walks, bridge at disposal works and contingencies, $50,000. Total, $987,000. Hering & Fuller are Consulting Engrs., 170 Broadway, New York.

BALTIMORE, MD.—The Board of Awards on Feb. 10 awarded the contract for water-tanks and towers for the sewage disposal works on Bach River, Contract No. 37, to HORACE E. HORTON, Chicago, Ill., at $7,000.

NORFOLK, VA.—The Common Council has adopted a resolution appropriating $[illegible],000 for sewer extension in the first six wards of the city. W. T. Brooke is City E[illegible]r.

REIDSVILLE, N. C.—Bandy & Myers, Consulting Engrs., Greensboro, N. C., are surveying the city preparatory to the construction of a sewer system and paving of streets. Estimated cost, $50,000.

*BIRMINGHAM, ALA.—We are officially advised that all bids received on Feb. 3 by the city for the construction of storm sewers have been rejected. New bids will be asked. Maury Nicholson is City Engr.

GRENADA, MISS.—The city is considering the issuance of bonds for the extension of the sewer system and other improvements. Estimated cost, $35,000.

TULLAHOMA, TENN.—The city is considering the construction of a sewer system here. Estimated cost, $50,000.

BINGHAMPTON (Memphis post-office), TENN.—The city has voted $25,000 of bonds for the construction of a sewer, electric light and water system. Estimated total cost of sewer system, $14,950. George B. Stewart is Mayor.

LEXINGTON, KY.—AHERN & CO., of Lexington, have secured the contract for constructing a sewer 1,600 ft. long on East Main St. E. D. Veach is Acting Mayor.

LOUISVILLE, KY.—Bids are asked until noon, March 5, by the Sewerage Commissioners, Charles P. Weaver, Secy., for the construction of Section B of the Castlewood sewer. The work will consist mainly of building a concrete sewer about 2,770 ft. long, 36 to 42 ins. in diameter; depth, 9 ft. to 18 ft., including 675 cu. yds. of concrete.

CARPE & GRAY, Louisville, have been awarded the contract by the Sewerage Commissioners for the construction of the St. Xavier St. sewer.

YOUNGSTOWN, OHIO.—Smith & Turner, Consult. Engrs., are preparing plans and specifications for a sewerage system for the George Tod Cemetery Association, Inc., H. H. Stambaugh is Trustee.

PORTSMOUTH, OHIO.—Samuel Monroe & Son have submitted the lowest bid for constructing the Kehoe Alley sewer, between Third and Fourth Sts.

WARREN, OHIO.—Bert C. Smith, City Engr., is preparing plans for 900 ft. of 9-in. vitrified tile sewer. Bids will be received by the Board of Public Service about March 15.

LA FAYETTE, IND.—R. L. Sackett, Engr., Purdue University, will receive bids for the construction of vitrified pipe sewers, concrete tanks, walls, filters and all necessary apparatus for a complete purification plant for the Girls School at Clearmont.

DETROIT, MICH.—The Common Council has awarded the contract to FERD PORATH, Jr., Michigan Ave., for Section 5, Waterman Ave. public sewer, at $14,272.

NEWTON, ILL.—Lee L. Harper, C. E., Belleville, Ill., is preparing plans and specifications for sewers here.

EAST ST. LOUIS, ILL.—We are officially advised that bids were received as follows on Feb. 17 by the Board of Local Improvements for the construction of outlet sewers: (a) Section 1, (b) Section 2, (c) Section 3, (d) Section 4, (e) Section 5, (f) Section 6, (g) Section 7, (h) whole work: Geisel Construction Co. (b) $147,042; Metropolitan Contracting Co. (a) $185,500, (b) $138,907, (c) $168,853, (d) $67,579, (e) $68,581; Federal Improvement Co. (a) $161,640, (b) $125,732; O. T. Dunlap Co., Edwardville, Ill. (a) $155,555, (b) $124,525, (c) $125,510, (d) $52,947, (e) $49,500, (f) $67,489, (g) $134,740, (h) $710,267; Joseph J. Duffy (a) $169,070, (b) $130,952, (c) $144,685, (d) $64,926, (e) $61,823, (f) $38,433; Nash & Dowdle (a) $185,500, (b) $134,447, (c) $135,984, (d) $52,365, (e) $156,087, (f) $105,000, (g) $149,000, (h) $810,383; Fruin & Colnon Contracting Co., (a) $165,625, (b) $129,075, (c) $135,784, (d), $57,702, (e) $54,550, (f) $65,000, (g) $125,000, (h) $732,736; M. Sullivan & Sons and McCarthy Bros. (b) $140,288; Walter Coonan (d) $47,761. Engineer's estimate for whole work, $719,688.

MINNEAPOLIS, MINN.—We are officially advised that bids were received as follows by the Council for sewer supplies: For 2,000,000 sewer brick: Wisconsin Red Pressed Brick Co., Minneapolis, $9.25 per M.; Minneapolis Brick & Tile Co., Minneapolis, $9; Menomonie Hydraulic Pressed Brick Co., Minneapolis, $9.10. 200 tons of special castings: Crown Iron Works, Minneapolis, $36 per ton; Northwestern Foundry Co., Minneapolis, $30; Menzel & Jeffery Co., Minneapolis, $40; Diamond Iron Works Co., Minneapolis, $29; North Star Foundry Co., Minneapolis, $33; Standard Foundry Co., Minneapolis, $32. Andrew Rinker is City Engr.

MANKATO, MINN.—Bids are asked until 2 p. m., Feb. 26, by the Board of Public Works for two sewer pumps and two electric motors. One pump is to be 65-HP. and will throw an 18-in. stream and the other will be of 15-HP. and will throw an 8-in. stream. Both together will pump 15,000 gallons of sewage per min.

MARION, KAN.—Bids are asked until 7.30 p. m., March 1, by Thomas W. Brown, City Clk., for plans and specifications for the construction of a septic sewage disposal plant with an estimate of the probable cost.

SPRINGFIELD, MO.—JOHN SPONDRI, of Springfield, has been awarded the contract for constructing vitrified pipe sewers in Sewer district No. 12. Estimated cost, $12,000. H. G. Horton is City Engr.

DALLAS, TEX.—The Board of Municipal Commissioners have awarded the contract to C. W. OLCUTT, of Dallas, at $3,150, for laying 8-in. sanitary sewer on Fairmount, Throckmorton and South Sts.

JULESBURG, COLO.—We are officially advised that plans are being prepared by C. H. Meeker, of McCook, Neb., for a system of sewers for the town. Estimated cost, $30,000. Contract will be let in March.

CLOVIS, N. MEX.—See item under Light and Power Plants.

SAN DIEGO, CAL.—About $115,000 will be expended for the construction of sewers; work to be done by the city. A. F. Crowell is City Engr.

TORONTO, ONT.—Upon the recommendation of C. H. Rust, City Engr., the City Council have engaged Rudolph Hering, 170 Broadway, New York, and John D. Watson, of Birmingham, England, to report upon the sewage disposal system for Toronto.

GARBAGE DISPOSAL.

NEW CASTLE, PA.—All of the nine bids for the collection and disposal of garbage for the next three years have been rejected by Councils, and new bids will be asked for at once. The contract, it is stated, was not properly advertised and contractors claimed that they did not know it was to have been awarded. George H. Van Horn, of this city, was the lowest bidder for the contract at $11,960 per year for three years.

SACRAMENTO, CAL.—Bids will be received by H. T. Desmond, Clk. Bd. of Pub. Ser., until 8 p. m., March 1, for an additional garbage incinerating unit at the crematory. Specifications on file with clerk.

STREETS AND ROADS.

(* *denotes that this work is advertised in Engineering News.*)

BUFFALO, N. Y.—FRANK V. E. BARDOL, Buffalo, has been awarded the contract by the Department of Public Works for macadamizing Hamburg Turnpike, Section 1, at $75,000 and Section 2, at $31,400. THOMAS E. BROWN CONTRACTING CO. secured the contract at $4,830 for Section 3.

SYRACUSE, N. Y.—The Board of Contract and Supply has awarded contract to the WARNER-QUINLAN ASPHALT CO., 438 S. Salina St., Syracuse, for the resurfacing of South State St., from Kennedy St. to Colvin St., with sheet asphalt, at $10,040. Frederick T. Pierson is Secy. Bd.

ROCHESTER, N. Y.—The Board of Contract and Supply on Feb. 10 awarded the contract for repairing asphalt pavement, 27,700 sq. yds., during 1909 to WHITMORE, RAUBER & VICINUS, 279 South Ave., at $34,390. Edwin H. Fisher is City Engr.

BROOKLYN, N. Y.—THE CRANFORD CO., 190 Montague St., has been awarded the contract by Bird S. Coler, Boro. Pres., for regulating and paving with asphalt on a concrete foundation Prospect Place, from Buffalo Ave. to Rockaway Ave., at the following prices: 12,900 sq. yds. asphalt pavement, 5-year maintenance, $1.07, and 1,800 cu. yds. concrete, $5.75; total, $524,153. Other bidders were: Uvalde Asphalt Co., 1 Broadway, New York, $28,215; Barber Asphalt Co., 30 Church St., New York, $24,294; Standard Asphalt & Rubber Co., 115 Broadway, New York, $25,575.

BROOKLYN, N. Y.—Bids were received as follows on Feb. 17 by Bird S. Coler, Boro. Pres., for regulating, grading and curbing, with all work incidental thereto, 41st St., from Sixth Ave. to a point about 320 ft. more or less west of Ninth Ave., and laying sidewalks from Sixth Ave. to New Utrecht Ave.: The Mangeri Co., $7,592; John J. Guinam, $7,997; Chas. Giannattaio & Bro., $8,260; National Cement Construction Co., $8,061; Paladino Construction Co., $7,556.

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Boro. Pres., until 11 a. m., March 10, for regulating and repaving with asphalt on a concrete foundation the roadways of various streets; for furnishing and delivering 100,000 sq. ft. of bluestone flagging, 6,000 cu. yds. of paving sand, one 10-ton steam macadam road roller, 2,98 cu. yds. of broken trap rock and 994 cu. yds. of trap rock screenings, 1,386 cu. yds. of broken trap rock and 462 cu. yds. of trap rock screenings, etc.

NEW YORK, N. Y.—Bids are asked until 3 p. m., March 11, by the Park Board for repairing seven steam rollers. Henry Smith is Pres.

*BAYONNE, N. J.—Bids will be received by the Council until 8 p. m., March 16, for all the labor and material for the improvement of 16th St., from Broadway to Ave. E.; 25th St., from Broadway to Ave. E.; 27th St., from Ave. A to Ave. E.; 45th St., from Ave. B to Ave. E. There will be required about 19,150 sq. yds. of asphalt paving together with the necessary excavations, curbing and other appurtenances. F. W. Dalrymple is City Engr.

PLAINFIELD, N. J.—Bids will be received until March 1 by the Common Council for furnishing crushed stone for the remainder of the year 1909, requiring about 100 tons fine screenings, 500 tons ½-in., 4,000 tons 1½-in. and 200 tons 2½-in. stone; also furnishing material for cross walks and culverts. James T. MacMurray is City Clk.

JERSEY CITY, N. J.—Bids are asked until March 1 by the Board of Street and Water Commissioners for improving Center St. and for 2,242 sq. yds. of Belgian pavement on Hague St. George T. Bouton is Clk.

ELIZABETH, N. J.—Bids were received by the City Council on Feb. 15 for paving Erie St., from First Ave. to Third Ave., with brick pavement on a 6-in. concrete foundation. Bids were as follows: O'Neill & Viscount, $15,300; Wade & Callahan, $15,297; De Rosa & Jaques, $15,055; James J. Potts, $14,846; New Jersey Paving Corporation, $15,792; J. F. Shanley & Co., no given amount; J. Irwin & Co., no given amount.

Bids were also submitted as follows for paving Geneva St. with brick pavement, from Elizabeth Ave. to Third Ave.: New Jersey Paving Corporation, $16,372; De Rosa & Jaques, $16,607; O'Neill & Viscount, $15,832; James J. Potts, $15,400; J. F. Shanley, no given amount; Wade & Callahan, $15,863. The bids submitted by J. Irwin & Co. for paving Erie St. and by J. F. Shanley & Co. for paving Erie and Geneva Sts. gave only quotations on the price of the brick per sq. yd. All the bids were referred to the Committee on Streets and Highways. W. H. Luster, Jr., is City Engr.

DORRANCETON (Wilkes-Barre post-office), PA.—The Borough Council has awarded to the B. G. COON CONSTRUCTION CO. the contract for paving with brick block portions of Union St. and Rutter Ave., at from $1.86 to $2.03 per sq. yd. on various kinds of block.

MOUNT PLEASANT, PA.—An ordinance has been passed, and plans and specifications will be prepared at once providing for paving Eagle and West Walnut Sts. with brick. The improvement will cost about $55,000, one-third of which will be borne by the city and the remainder by the property holders. Actual work will be started early in the summer, and the contracts will be awarded within the next two months.

ST. CLAIR, PA.—Bids are asked by the Borough Council until 8 p. m., Feb. 25, for grading, paving and curbing a portion of Spring St. William Fromm is Clk.

WASHINGTON, D. C.—Bids are asked until March 9 by the Bureau of Supplies and Accounts, Navy Department, Washington, for furnishing 12,700 asphalt paving blocks, Schedule 969.

NATIONAL SOLDIERS' HOME, VA.—Bids will be received until 1.30 p. m., March 12, by John T. Hume, Treas. Southern Branch, N. H. D. V. S., for furnishing material and laying about 3,465 sq. yds. of concrete sidewalks.

NORFOLK, VA.—PERRY W. RUTH has been awarded contract by the Ballentine Realty Co. to lay granolithic sidewalks on its property from the Cape Henry to the Ocean View car lines, one mile in length, at about $30,000.

NEWBERN, N. C.—Bids are asked until 8 p. m., March 1, by G. J. McCarthy, Chn. St. Com., for 25,000 sq. yds. of street paving, using granite blocks or vitrified brick.

CHARLOTTE, N. C.—The Finance Committee is considering paving East Ave. with bitulithic. Estimated cost, $32,000, of which the city will pay about $17,000.

REIDSVILLE, N. C.—Bandy & Myers, Greensboro, N. C., are surveying city for the paving of streets and construction of sewer system. Estimated cost, $50,000.

*GREENWOOD, S. C.—We are officially advised that bids were opened as follows on Feb. 18 by Kenneth Baker, Mayor, for drainage, grading, curbing and paving the public square, with granite block, and with either vitrified brick, wood block, asphalt, or bitulithic. The work will embrace approximately 21,333 sq. yds. of pavement: George W. Warring, Columbia, S. C., $46,604 (wood block); Atlantic Bitulithic Paving Co., Richmond, Va., $46,517; Southern Paving Construction Co., Chattanooga, Tenn., $45,913; BOWEN & PAGE, Augusta, Ga., $45,170 for brick (awarded contract); R. Blome Co., Chicago, Ill., $45,064. Wilson, Sampayras & Urquhart are Consult. Engrs.

PLANT CITY, FLA.—The Council has awarded the contract to J. M. SMITH & CO. for constructing five-eighths of a mile of rock road in the northwestern part of the town. This road is to be built for the purpose of connecting the clay pits owned by the town with the main road and also for the benefit of the Sanitary Department.

GULFPORT, MISS.—The City Council has adopted an ordinance providing for the general grading of a Shell road on the beach and laying of concrete sidewalks within city limits.

LAWRENCEBURG, KY.—The Hammonds Creek & Salt River Turnpike Co. has been incorporated by G. C. Hoffman, J. M. Wilson, William Sherwood and others.

CLEVELAND, OHIO.—Bids were opened on Feb. 5 by the Board of Public Service for paving 52 streets, 50 of which will be of brick and two of Medina sandstone. The following were awarded contracts: CLEVELAND TRINIDAD CO., for 22 streets, at about $97,641; I. R. BENTLEY, eight streets at about $28,231; ROEHL BROS., for 14 streets, at about $86,689; NORTHERN OHIO PAVING & CONSTRUCTION CO., for six streets, at $51,427; ENTERPRISE PAVING & CONSTRUCTION CO., for one street, at $4,150; STANDARD PAVING CO., one street, $3,671; and BALDWIN BROS., one street. William J. Springborn is Pres. Bd.

Bids are asked until 11 a. m., March 10, by the County Commissioners, William F. Black, Clk., for grading, draining and improving Settlement road, from Lorain road in Rockport Village, West Park Township, to Wooster Pike on the line of Parma and Middleburg Townships, in West Park, Parma and Middleburg Townships.

YOUNGSTOWN, OHIO.—The lowest bids opened on Feb. 13 by the Commissioners of Road District No. 1, of Mahoney County, Youngstown, for furnishing material and turnpiking Salt Springs Road a distance of 6,100 ft. and Vestal Road a distance of 4,800 ft., were as follows: Kennedy Bros., on sandstone base, $12,401; Waldeck & Ready, on limestone base, $13,591; L. H. Young, on slag base, $13,100.

TOLEDO, OHIO.—The ANDREWS ASPHALT PAVING CO., of Hamilton, has secured the contract for paving with asphalt a portion of Collingwood Ave. at $16,974. Bids were opened on Feb. 9 by the city.

The lowest bids opened on Feb. 9 by the Board of Public Service for paving portions of Robinwood and Euclid Aves., were submitted as follows: Russell & Jennison, $10,738; Andrews Asphalt Paving Co., of Hamilton, $10,740. Contract for Euclid Ave. awarded to ANDREWS ASPHALT PAVING CO. on Feb. 13.

LOGANSPORT, IND.—JOHN H. SMITH has secured the contract at $10,837, for constructing the Kitchell road for the county and for the Tritt road.

BEAL & BELL, at $11,321, were awarded contract for constructing the Thomas road.

KENTLAND, IND.—Bids are asked by the Commissioners of Newton County until 1 p. m., March 2, for the construction of a system of macadamized roads in Lake Township. E. B. Bringham is Co. Audr.

ANDERSON, IND.—Bids are asked by the Commissioners of Madison County until 10 a. m., March 10, for the construction of two gravel roads in Anderson Township, 2,296 and 5,280 ft. in length, respectively; one road in Lafayette and Jackson Townships, 13,550 ft. in length; one road in Duckcreek Township, 10,676 ft. in length; one each in Fall Creek and Jackson Townships, 13,643 and 15,853 ft. in length, respectively; eight roads in Pipe Creek Township, 4,880, 6,013, 2,592, 10,245, 11,915, 9,633, 9,715 and 2,647 ft. in length, respectively; and one road each in Richland and Stoney Creek Townships, 10,630 and 3,431 ft. in length, respectively. William T. Richards is County Audr.

COVINGTON, IND.—Bids will be received by the Commissioners of Fountain County until 1 p. m., March 2, for the construction of a gravel road in Wabash Township. W. B. Gray is County Audr.

MARION, IND.—Bids are asked by the Commissioners of Grant County until 2 p. m., March 6, for the construction of a stone road on line between Jefferson and Monroe Townships and for the construction of a brick and stone road or street in town of Upland, total length, 3,119 ft. A. Y. Yout is County Audr.

*FOWLER, IND.—The Commissioners of Benton County have awarded a contract for the construction of the Keller gravel road to P. J. KENNEDY at $11,999.

SEYMOUR, IND.—Bids are asked by the Commissioners of Jackson County until 1 p. m., March 2, for the construction of 12,570 ft. of gravel road in Washington Township. H. W. Walker is County Audr.

DOWNERS GROVE, ILL.—LOGAN & GIERTZ, of Elgin, have secured the contract for 44,000 sq. yds. of brick paving here at $67,142.

EAST ST. LOUIS, ILL.—Bids will be received by the Board of Local Improvement, E. L. Adams, Chn., about March 1 for improving Market, Eleventh and 14th Sts. W. G. Crocken is City Engr.

GALENA, ILL.—JOHN BASTIAN and JOSEPH J. BAUER were awarded the contract for paving of upper Franklin St. by the Board of Local Improvements on Feb. 13 at $1.50 per sq. yd. for brick paving and 20 cts. per lin. ft. for curbing. The plans and specifications call for 7,200 sq. yds. of paving and 2,936 lin. ft. of curbing.

WAUKESHA, WIS.—Bids will be received until Feb. 26 by the Board of Public Works, John P. Dey, Chn., for street improvement, requiring about 26,600 sq. yds. of macadam with tar surfacing, 18,000 lin. ft. of combination curb and gutter and 10,000 cu. yds. of excavation. Estimated cost, $40,000.

ELLIS JUNCTION, WIS.—ALEXANDER and WILLIAM McGAVOCK, of Beloit, have been awarded contract for grading for a levee on both sides of the Peshtigo River for the Northern Hydro Electric Power Co., 14 miles west of Ellis Junction. The work represents the handling of 150,000 yds. of earth.

INDIANOLA, IOWA.—Bids were opened on Feb. 8 by the city for (a) 15,390 sq. yds. of 3-in. creosoted wood block paving on a 5-in. concrete foundation, (b) 7,884 lin. ft. of 6 × 20-in. concrete curb, and (c) 450 cu. yds. of extra grading. The contract was awarded to the KETTLE RIVER QUARRY CO., of Minneapolis, Minn., at the following prices: (a) $2.61, (b) and (c) 35 cts. Other bidders were: Smith & Son, (a) $2.82½, (b) 35 cts, (c) 40 cts.; Haribin & Co., Iowa City, (a) $2.69, (b) 35 cts., (c) 30 cts.; George M. King Construction Co., Des Moines, (a) $2.68, (b) 38 cts., (c) 40 cts.; J. J. Dunegan, Shenandoah, (a) $2.66, (b) 40 cts., (c) 40 cts. A. H. Gilliland is Engr.

ST. PAUL, MINN.—The Board of Public Works on Feb. 9 awarded the contract for constructing sidewalks for the year 1909 to the PORTLAND STONE CO., at $83,325.

SOUTH ST. PAUL, MINN.—Bids will be received by C. A. Forbes, City Engr., until March 1, for the grading and curbing of Concord St. About 50,000 sq. yds. will be graded. Estimated cost, $18,000.

LAWRENCE, KAN.—Bids will be received by the Township Board of Grant Township until 8 a. m., Feb. 27, for grading 9,915 cu. yds. of public road in said township. E. S. Eastman is Clk.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements until noon, March 9, for improving various streets and alleys. W. B. Dryden is Secy. Bd.

DALLAS, TEX.—The contract for paving Annex Ave., from Bryan to Ross Sts., has been awarded to the TEXAS BITULITHIC PAVING CO., Dallas, at $2.30 a sq. yd., with a 5-year guarantee. There is to be a 5-in. gravel concrete base.

KLEIN BROS. secured the contract for guttering and curbing at 60 cts. a ft.

OKLAHOMA CITY, OKLA.—The lowest bid opened on Feb. 10 by the City Council for paving portions of Harrison Ave., 13th and 18th Sts., was submitted by R. F. McCormick at $40,626.

PAULS VALLEY, OKLA.—Bids will be received until March 1, by L. C. Wettermark, City Clk., for furnishing material and paving with brick about 17,986 sq. yds. L. C. Hunter is City Engr.

DENVER, COLO.—The contract for laying sidewalks in North Side Improvement District No. 8 was awarded by the Board of Public Works on Feb. 9 to GEORGE BARKER at $28,863. The district concerned extends between Tejon and Zuni and 34th and 44th Sts. The contract for the grading in the same district was let to J. FRED ROBERTS.

OLYMPIA, WASH.—All bids for paving Washington, Franklin, Adams, Fifth and Sixth Sts., have been rejected by the city. New bids will be received until March 1 by the City Clerk.

W. A. WELLER has secured the contract for paving Main st., between Third and Seventh Sts., with brick, about 6,500 sq. yds., at $19,893. List of bidders noted on Feb. 18.

SEATTLE, WASH.—The following bids were received on Feb. 13 by the Board of Public Works, for paving Sixth Ave., etc., with (a) sandstone, (b) granite: T. Ryan, Sullivan Block, Seattle, (a) $106,100, (b) $107,963; Sparger Concrete Co., Colman Block, Seattle, (a) $101,830, (b) $104,379; C. W. Cort & Co., Seattle, (a) $105,000,

(b) $106,991; PAUL STEENSTRUP, Seattle, (a) $100,748, (b) $102,139 (awarded contract); Coast Construction Co., Pacific Block, Seattle, (a) $102,888, (b) $103,815; C. J. Erickson, 318 Columbia St., Seattle, (a) $109,087, (b) $111,636; Haus Pederson, Alaska Bldg., (a) $111,200, (b) $111,188. Itemized prices will be given next week under Contract Prices.

SACRAMENTO, CAL.—Bids will be received by the Board of Supervisors, Sacramento County, until 2 p. m., March 1, for the construction of a macadam roadway, with asphaltic oil in the upper courses, graded berms, concrete culverts and wooden trestles, along Auburn road, from Stations 59 + 00 to 784 + 60 at the boundary line between Sacramento and Placer counties, a distance of 13¾ miles, about 95,000 sq. yds. C. M. Phinney is County Surv.

*WINNIPEG, MAN.—Bids are asked by the Chairman of the Board of Control until 11 a. m., March 10, for 2,500 to 3,500 tons of asphalt for street paving. M. Peterson is Secy. Bd.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

LEWISTON, ME.—The stockholders of the Hill Mfg. Co. have voted to build a mill which will have a capacity of 23,000 spindles. This will make the entire capacity of the Hill plant 80,000 spindles. William D. Pennell is Agent.

LAWRENCE, MASS.—It is stated that the American Woolen Co. is contemplating plans for erection of a mill, the main building of which is to be 600 ft. long, 125 ft. wide and six stories in height. The dye house, 375 ft. long and 100 ft. wide, and necessary buildings for engines and boilers are included in the plans. It has not been definitely decided to build the mill in Lawrence. There are other places desirous of having this mill built in their locality and it is not known at present just what place will be selected. It is said that the company has received inducement from cities in New York and Vermont and from Providence, R. I., in an effort to get the American Woolen Co. to erect the mill in one of those places.

PAWTUCKET, R. I.—Present quarters of the Glencairn Mfg. Co. will soon be abandoned, and the old New England Thread Co. factory, occupied by the concern. The company has purchased the property for $10,000. It consists of 23,000 sq. ft. of land, and a 3-story and basement building, 90 × 45 ft., and is assessed for $13,000. The building will be thoroughly overhauled and new machinery installed for the manufacture of silk and mercerized shoe laces. It is expected to be ready about May 1. Daniel T. Brown is Pres.

BUFFALO, N. Y.—The Frontier Iron Works will build a plant at Letchworth and Grant Sts. and the New York Central R. R., consisting of a foundry building, machine shop, pattern shop and office building, all to be of brick and steel construction. Walter F. Semon, Pres., 2 Auburn Ave.

NEW YORK, N. Y.—A 12-story commercial building for manufacturing and stores will be built for the Meteor Realty Co., Isaac Polstein, Pres., at 40 and 42 West 17th St. It is to be of brick, finished with limestone trimmings, and having tall bays and a frontage of 50 ft. and a depth of 82 ft. The cost is estimated at $200,000.

PENFIELD, N. Y.—A paper mill of brick construction, to cost $50,000, is to be erected on Irondequoit Creek, by the Lawless Paper Co., 89 St. Paul St., Rochester.

CAMDEN, N. J.—THE H. B. DEAL CO., Philadelphia, Pa., has been awarded a contract to build a two-story and basement factory, 50 × 80 ft., at Fourth and Jefferson Sts., Camden, for the General Gas Mantle Co. The cost will be $10,000.

JERSEY CITY, N. J.—The Riparian Commission has granted the P. Lorillard Tobacco Co. riparian rights at the Hackensack River, foot of Broadway, Jersey City, and the American Tobacco Co., which controls Lorillard & Co., will proceed to build a factory on the property acquired by the company at Van Winkle St. and West Side Ave., alongside the New York, Susquehanna & Western R. R. tracks.

SPRING CITY, PA.—J. V. Poley, Arch., 162 Second Ave., Royersford, Pa., advises us that he is preparing plans for underwear mills, 50 × 190 ft., five stories high for George W. Reiff, of the Century Knitting Mills, of Spring City. The building will be of iron and steel and reinforced concrete. It will be provided with fireproof partitions, reinforced-concrete floors, sprinklers, wire glass and fire doors and windows. Bids will be received by the owner.

LANSDALE, PA.—JAMES G. BROWN, Witherspoon Bldg., Philadelphia, Pa., has been awarded the contract for the erection of a factory building at Lansdale, which is estimated to cost $25,000.

PHILADELPHIA, PA.—A permit was granted to the William Steele & Sons Co., contractors, 1600 Arch St., for the erection of a 5-story brick addition to the factory of the Philadelphia Tapestry Mills, at the corner of Howard St. and Allegheny Ave., which is estimated to cost $30,000. The addition will measure 58.2 × 86.26 ft.

Ballinger & Perrot, Archs., 1200 Arch St., have awarded a contract to ROYDHOUSE, AREY & CO., Fidelity Bldg., for the erection of a 2-story building, 84 × 103 ft., at the corner of Arch and 21st St., for Fleischmann's Vienna Model Bakery.

As a site for a $500,000 extension to its present plant, the Philadelphia Warehousing & Cold Storage Co., Delaware & Noble Sts., has bought the properties at 512 to 528 Beach St. and 515 to 533 North Front St. The lot purchased measures 225 × 165 ft., and is assessed for about $50,000. Upon it will be erected an 8-story cold storage and freezing plant, 150 × 165 ft.; engine and boiler houses and large coal pockets. The company's present plant measures 220 × 150 ft. The plans for the building are being prepared by Patrick O'Mara. The proposed building will be an 8-story structure of brick and reinforced concrete, and will be equipped with coal pockets, refrigerating and ice plants and a storage capacity for perishable products.

BALTIMORE, MD.—Rice Bros. Co., 308 to 324 North Gay St., is having plans prepared by John Freund, Jr., 210 East Lexington St., Baltimore, for proposed addition to plant, 72 × 85 ft., three stories high, with basement, reinforced concrete construction, brick walls. The building will be fireproof, with 25,000 sq. ft. floor space, steam heat, electrical equipment and elevators. Cost, about $20,000.

WINCHESTER, VA.—C. A. Williams & Bros., owners of the Winchester Woolen Mills, announce that they will double the capacity of the plant, and the contracts for the work will be let at once.

SEWELL, W. VA.—F. O. Havener, Parkersburg, W. Va., and Pittsburg associates have taken over Sewell Lumber Co. and purchased for development 750 acres of timber land in Fayette County, according to the 'Manufacturers' Record." The lands are estimated to contain over 75,000,000 ft. of oak, poplar, hemlock, etc. The company will build band mill with daily capacity of 50,000 ft. of lumber, kilns for drying entire output, and circular-saw mill for timbers up to 60 ft. long. It will construct logging railway (narrow-gage) with 35-lb. steel rails. Logging will be done by long-distance cable steam skidder system. Annual output of plant to be 15,000,000 ft. of lumber. About $250,000 will be invested. Mr. Havener is Pres. and F. R. Babcock Vice-Pres. of Sewell Lumber Co., Parkersburg, W. Va.

LAURINBURG, N. C.—At a meeting of the stockholders of the Waverly Mills the following officers were elected: J. F. McNair, A. I. James, H. W. Malloy, A. A. James, Z. V. Pate, J. A. Jones and J. P. McRae, Directors; J. P. McRae, Pres.; J. A. Jones, Vice-Pres.; C. F. Avinger, Secy. and Treas., and F. C. Graddick, Supt. The mills have from 18,000 to 20,000 spindles, and will spin hosiery yarns. The first call on the stock has been made and the mill will be built as soon as possible. Actual work will be begun the last of March or the first of April.

ASHBORO, N. C.—The Acme Hosiery Mill, of Ashboro, N. C., has let contract to M. L. DAVIS, of Ashboro, for erection of its buildings, which will include a 2-story mill, 60 × 100 ft., a 1story boiler and engine house, 30 × 40 ft., and a dye house, 40 × 60 ft. These buildings will cost from $7,000 to $8,000. They will be equipped with 100 knitting machines and accompanying dyeing apparatus and steam power plant, for a daily capacity of 400 dozen pairs of cotton hosiery. The company's capital stock is $100,000, and O. R. Cox is Secy.-Treas.

MONROE, N. C.—The Icemorlee Cotton Mills Co., of this city, will build an addition mill, it is reported. It will double its present capital stock of $125,000, and erect a 5,000-spindle plant for manufacturing fine yarns. The company now operates 5,000 spindles. Charles Iceman is Gen. Mgr.

EASLEY, S. C.—The Easley Cotton Mills will enlarge its present plant. The plan is to erect modern structures, and install 25,000 spindles and 600 looms for the production of sheeting. The Easley Mill is operating 37,744 spindles and 1,020 looms, driven by steam power and employing 500 persons. The company is capitalized at $365,000. J. M. Geer is Pres.

WATKINSVILLE, GA.—A. C. Alder, Watkinsville, whose machine shop was recently destroyed by fire, will build a new structure, 32 × 50 ft., and will install wood and iron working machinery. Bids for the machinery will be opened soon.

LAGRANGE, GA.—Bids are asked until March 8 by the Manchester Cotton Mills, of Manchester, Ga., at Lagrange, Ga., for the erection of the mill buildings. The main structure will be three stories high, of mill construction, 100 × 450 ft., to be equipped with 20,000 spindles and 500 looms for manufacturing cloth. About 750 HP. will be required to operate the plant. Fuller E. Callaway, of Lagrange, is Pres. A. F. Walker, Austell Bldg., Atlanta, Ga., is Engr.-in-Charge, and Roy Dallis, of Lagrange, will be in charge of construction. The company is capitalized at $500,000.

ATLANTA, GA.—We are officially advised that the Southern Cotton Stalk, Pulp & Paper Co., Chandler Bldg., Atlanta, Ga., which proposes to manufacture paper out of cotton stalks, will build its first mill as soon as a location is determined upon. Estimated cost, $75,000. W. E. McMillen is Pres.

KINDER, LA.—It is stated that a rice mill will be established here by a company in which J. A. Foster, Lake Charles, is interested.

BREWSTER (Justus post-office), OHIO.—B. A. Worthington, Receiver for the Wheeling & Lake Erie R. R. Co., has announced that the work of erecting the roundhouse and shops at Brewster will be commenced as soon as the weather is favorable. Three steam shovels and four work trains are in operation at Brewster.

CLEVELAND, OHIO.—Dercum & Beer, Archs., Schofield Bldg., are preparing plans for a factory building for the Beckman Blanket Works on Clark Ave. It will be 75 × 100 ft., one story high with saw. It will cost about $12,000.

A 4-story brick factory is to be built for the Cleveland Notion Co. at Woodland Ave. and East Ninth St. Morris M. Gleichman, Arch., Benedict Bldg., has let the contract to J. DOLINSKY.

CINCINNATI, OHIO.—The Banner Baking Co., East Pearl St., has decided to erect a plant to cost from $100,000 to $125,000. There will be 20 baking ovens on the first floor. This floor will contain about 40,000 sq. ft. of floor space. Part of this building will be but one story in height, while some will be two stories high. The structure is to be built of concrete.

ST. LOUIS, MO.—Boston Blacking Co., 96 Beverly St., Boston, Mass., will establish plant in St. Louis for manufacturing blacking. C. M. McDONALD, 1111 Chestnut St., St. Louis, will erect for the company 5-story factory building, brick, fireproof, 40 × 83 ft. Cost, about $30,000. J. D. Paulus, 219 North Fourth St., Arch.

FORT WORTH, TEX.—Zucarro Bros. will establish plant for manufacturing macaroni and spaghetti and will erect building with two stories and basement, 50 × 100 ft. Cost of plant, exclusive of building, $25,000.

SANTA ANA, CAL.—James T. Raitt, Robert McFadden, C. R. Ward and others will erect a creamery here, it is stated. The building will be of cement construction.

NIAGARA FALLS, ONT.—A 1story brick factory building, 50 × 150 ft., is to be erected on Center St. by the American Column Co., Battle Creek, Mich. Cost, $25,000.

WELLAND, ONT.—The Davis Mfg. Co., will erect a factory building here comprising a main building, 60 × 350 ft. and two L's, 60 × 150 ft. Construction is to commence in the spring.

VANCOUVER, B. C.—See item under Light & Power Plants.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—Items regarding irrigation, canal projects, etc., will be found under Water Supply—Irrigation.

TUGBOATS.—Belgium.—See under Foreign Contracts.

*MOTOR HOSE WAGON. — Shanghai, China. See under Foreign Contracts.

WIRE FENCE.—Fort Hamilton, N. Y.—Bids are asked by the Constructing Quartermaster, Fort Hamilton, until 11 a. m., March 18, for construction of a wire fence at this post.

DRAINAGE.—Deerfield, Wis.—Bids will be received until 10 a. m., March 9, by J. H. Auby, Secy., Rattlesnake Drainage Dist., Dane County, at Deerfield, for work in said drainage district.

IRON FENCE.—St. Paul, Minn.—Bids are asked by J. E. Sawyer, Ch. Q. M., St. Paul, until 11 a. m., March 12, for the construction of an iron fence for the Big Hole Battlefield Monument, Mont.

COAL CONVEYOR.—Calgary, Alta.—Bids will be received until March 1 for the supply of material and labor necessary for the construction of a coal and ash conveyor. H. E. Gillis, City Clerk.

DREDGING.—Norfolk, Va. — Bids are asked until 11 a. m., March 13, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for certain dredging and wharf work at Norfolk navy-yard.

DITCH.—St. Paul, Minn.—Bids are asked by Geo. A. Ralph, State Drainage Engr., until March 8, for the contract for Judicial Ditch No. 1, in Steele and Waseca Counties. Approximate cost of the ditch is $52,000.

MONUMENTS.—Ottawa, Ont.—Bids will be received by W. W. Cory, Deputy Minister of the Interior, until noon, March 6, for the supply of 100 cast-iron boundary monuments for use along the international boundary.

PILE REVETMENT.—North Chicago, Ill.—Bids are asked until noon, March 10, by the Bureau of Navigation, Navy Dept., Washington, D. C., for construction of pile revetment at the naval training station, Great Lakes, North Chicago, Ill.

DITCH.—Redwood Falls, Minn.—Bids were received by L. P. Larson, County Audr., on Feb. 11, for constructing Judicial ditch No. 2, requiring about 53,698 cu. yds. of excavation. Contract was awarded to JERRY SHERWOOD, of Litchfield, Minn., at $4,995.

DITCH.—Fairmount, Minn.—Bids will be received until March 3 by H. P. Edwards, County Audr., for constructing County Ditch No. 11, consisting of 15¼ miles of open ditch, 417,881 cu. yds. earth to be removed and 143,695 ft. 20 to 6-in. tile. Estimated cost, $74,139.

METAL FURNITURE.—Reno, Nev.—The lowest bid received on Feb. 5 by the Treasury Department, Washington, D. C., for furnishing metal furniture for the U. S. postoffice at Reno, Nev., was submitted by the Art Metal Construction Co., Jamestown, N. Y., at $3,612.

QUAY WALL.—Portsmouth, N. H.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., March 20, for constructing about 162 ft. of granite retaining wall at the navy-yard. Specifications are on file at office of Engineering News, New York.

DITCH.—Elbow Lake, Minn.—Bids were received on Feb. 19 by O. E. Wold, County Audr., for constructing county ditch No. 9, involving about 86,350 cu. yds. of excavation. O. G. Molden is Engr., Fergus Falls. The contract has been let to CHARLES SUTCLIFF, of Benson, Minn., at $9,367.

*LOCK MACHINERY.—Wheeling, W. Va.—Bids are asked until 11 a. m., March 24, by Capt. F. W. Altstaetter, Corps Engrs., U. S. A., Wheeling, for furnishing and installing gas engines, compressors, special machinery, piping, etc., for operating the locks at Dams Nos. 13 and 18, Ohio River.

REPAIRING FIRE ENGINE.—Washington, D. C.—Bids were received on Feb. 10 by the Commissioners of the District of Columbia for rebuilding one second size fire engine. The American-La France Fire Engine Co., Elmira, N. Y., was the lowest bidder, at $3,214; time, 115 working days.

*REPAIRING PIER.—Frankfort, Mich.—Bids were received as follows by Col. M. B. Adams, Corps Engrs., U. S. A., Grand Rapids, Mich., on Feb. 16 for repair of South Pier at Frankfort: Burk, Smith & Nelson, Muskegon, Mich., $4,459; Robert Love, Muskegon, $4,805; Bennett-Schnorbach Co., Muskegon, $5,517.

DITCH.—Fowler, Ind.—Bids were received on Feb. 18 by the County Surveyor, Benton County, Fowler, for constructing the W. B. Curtis joint ditch in Round Grove Township, eight miles north of Otterbein. Chester B. Whicker is Supt. Constr... E. W. BEEKER & SON, La Fayette, Ind., have secured the contract.

*FENCE.—Prescott, Ariz.—... were received as follows on Feb. 8: ... K. P. Williams, 1st Lieut. and A. Q. M., ... for construction of post fence at Whipple Barracks, Ariz.: William Nelson, Prescott, Ariz. (cedar posts), $3,404; Sines & Rockey, Prescott, (redwood posts) $5,043, (Oregon) $4,735, (cedar posts) $4,354; Newell ... Los Angeles, Cal. (redwood posts).

LEVEE.—Vicksburg, Miss.—... Tensas Basin Levee Board awarded ... tracts on Feb. 10 as follows: To W. T. ... RANCE & CO., for the Fulton Lake levee ... Arkansas City, about 200,000 cu. yds. ... 28.9 cts.; C. C. HEMINGWAY, for drainage ditch at Panther Forest, Ark., at 17 ... cts.; ARTHUR WEBB, for ditch at ... Ark., at 18¾ cts. and to O. A. Gill ... for the Reid-Bedford ditch, at 20 cts.

DRAINAGE.—Hampton, Iowa.—... were received by F. G. Luke, County Audr., on Feb. 17 for the following drainage work: Franklin-Hardin District No. ... ditch and tile laterals; District No. 5 ... ditch, about 4,357 cu. yds.; Wisner-Ridgeway drainage district No. 4, tile drain. ... contract for construction in Districts Nos. ... and 5 has been let to the MULGREW-BOYD CO., of Dubuque, Iowa.

HARBOR IMPROVEMENTS.—... Ottawa, Ont.—Amounts have been voted for construction by the Dominion Government as follows: Port Arthur and Fort William Harbor improvements, $600,000; improvements at St. Andrews' Rapids, Winnipeg, $600,000; improvements at St. John Harbor, N. B., $475,000; harbor improvements at Toronto, Ont., $375,000. Nap. Tessier is Supt. of the Department of Public Works, Ottawa, Ont.

STEAMSHIP ALTERATIONS.—San Francisco, Cal.—Bids were recently received by the Alaska Pacific S. S. Co., for installing oil fuel tanks, additional accommodations and alterations to the new steamship "Admiral Sampson." The bids received were as follows: Moore & Scott Iron Works, San Francisco, $57,374, 46 days; Union Iron Works, $70,875, 45 days; Moran Bros., $71,800, 45 days; Boole, $87,131, 90 days; Risdon Iron Works, $64,850, 45 days; United Engineering Works, $83,742, 120 days.

DITCH.—East St. Louis, Ill.—Bids are asked until 2 p. m., March 2, by the Drainage Commissioners, Drainage Dist. No. 1, St. Clair County, for the excavation of 6,200 lin. ft. of ditch, with a base width of 15 ft. and with slopes of 1 to 1, and containing 22,000 cu. yds. of excavation. Plans and specifications may be seen at the office of W. J. Crocken, Engr., City Hall. All bids must be filed with F. B. Harding, Clerk of Board of Drainage Commissioners, at 344 Collinsville Ave., East St. Louis, Ill.

ORDNANCE.—Washington, D. C.—Bids were received on Feb. 17 by the Army Ordnance Office for furnishing howitzers and limbers as follows: (a) 20 6-in. siege howitzer carriages, model 1908; (b) 20 siege limbers, model 1905: American & British Manufacturing Co., (a) $13,675 and $11,820; (b) $1,638. Dietrick & Harvey Machine Co., (a) $202,142, and $142,142, (b) $29,033. Alart & J. M. Anderson Manufacturing Co. (a) $13,000 and $11,500, (b) $2,200. Bethlehem Steel Co., (a) $5,611 and $4,557, (b) $1,035.

CARTRIDGES.—Washington, D. C.—The following bids were opened on Feb. 15 by the Chief of Ordnance, U. S. A., Washington, D. C., for furnishing 1,000,000 rounds ball cartridges 38 caliber and 4,000,000 ball cartridges for magazine rifles:

Winchester Repeating Arms Co., New Haven, Conn., 38 caliber, $10.25 per M. and $11.25 per M; 30 caliber, $26.60 per M.

U. S. Cartridge Co., Worcester, Mass., $10.25 per M for 38 caliber and $26.85 for 30 caliber.

Western Cartridge Co., East Alton, Ill., $11 per M for 38 caliber.

Union Metallic Co., Bridgeport, Conn., $10 per M for 38 caliber and $27 per M for 30 caliber.

PILES.—Superior, Wis.—Bids were received as follows on Feb. 15 by Lieut.-Col. Graham D. Fitch, Corps Engrs., U. S. A. Duluth, Minn., for furnishing and delivering piles at Superior Entry, Wis.: (a) or about 134,620 lin. ft. of piles, delivered in water at Superior Entry, per lin. ft.; (b) total: Duluth Log Co., Duluth, Minn., (a) 16 2-5 cts.; (b) $22,078. A. J. Macdonald, Superior, Wis.: (b) $23,758 (bid irregular). Zenith Cedar Co., Duluth, (a) 16¼ cts.; (b) $22,212. Martin Bros., Duluth, (a) 16¾ cts.; (b) $22,548. Lake Superior Piling Co., Duluth, (a) 18 cts.; (b) $24,232. H. Younker, Ashland, Wis., (a) 13¼ cts.; (b) $18,174. The Virginia & Rainy Lake Co., Duluth, (a) 19 cts.; (b) $25,578.

DITCH.—Logan, Iowa.—Bids were received on Feb. 10 by the Auditor of Harrison County at Logan for constructing a ditch in Boyer Subdistrict No. 1, of Pottawattamie-Harrison Drainage District, known as Logan extension containing 314,159 cu. yds. Seth Dean is Engr.-in-Charge. Missouri Valley, Iowa.—Bids were as follows: For dipper dredge, Daniel E. Meage, Coldwater, Mich., 7.88 cts. per cu. yd.; Hamlin Construction Co., Chicago, 7.49 cts.; Rogers & Rogers, Curzon, Mo., 9.98 cts.; Timothy Foohy & Co., Ft. Wayne, Ind., 9.50 cts.; A. V. Wills & Sons, Pittsfield, Ill., 8.18 cts.; C. H. Sternberg & Son., South Bend, Ind., 7.08 cts.; Larson & Morrow, Missouri Valley, Iowa, 7.39 cts.; Cook Devaul Dredging Co., Pekin, Ill., 8.50 cts.; Central Dredging Co., Bancroft, Iowa, 7.95 cts.; Frank B. Stevens, Genesee, Ill., 7.40 cts.; Pollard Campbell Dredging Co., Omaha, Neb., 8.75 cts.

Dragline Dredge: Ryan Bros, Chicago, 12 cts. per cu. yd.; B. J. Sweatt, Boone, Iowa, 9.50 cts.; Fred Crane, Omaha, Neb. 8.90 cts.; W. A. Smith, California Junction, Iowa, 8.75 cts.; W. E. Callahan, Omaha, Neb., 8.97 cts.

CEMENT.—Minneapolis, Minn.—Bids were received by the Board of Public Works on Feb. 12, for furnishing (A) 40,000 bbls.

Portland cement for street work; and 10,000 bbls. Portland cement and (B) 5,000 bbls. natural cement for sewer work. Andrew Rinker is City Engr.; H. M. Knott is City Clerk:

(A)—Sandusky Portland Cement Co., Sandusky, $1.20 per bbl.; Universal Portland Cement Co., Chicago, $1.20; Menomonie Hydraulic Pressed Brick Co., Minneapolis, $1.20; Superior Mfg. Co., Minneapolis, $1.21; Landers, Morrison, Christenson & Co., Minneapolis, $1.20; Northwestern Lime Co., St. Paul, Minn., $1.15.

(B)—Menomonie Hydraulic Pressed Brick Co., Minneapolis, 50 cts.; Landers, Morrison, Christenson & Co., Minneapolis, 57 cts.; 10,000 bbls. Portland cement f. o. b.: Northwestern Lime Co., St. Paul, Minn., $1.15; Landers, Morrison, Christenson & Co., Minneapolis, $1.20; Superior Mfg. Co., Minneapolis, $1.21; Menomonie Hydraulic Pressed Brick Co., Minneapolis, $1.20; Universal Portland Cement Co., Chicago, $1.20; Union Railway Storage Co., Minneapolis, $1.20.

NAVAL SUPPLIES.—Washington, D. C.—Bids will be received until March 9 by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for furnishing at the various naval stations and navy yards the following supplies: Mare Island, Cal.: Sch. 913—75 M. ft. Douglas fir, 25 M. ft. Port Oxford cedar, 40 M. ft. spruce. Puget Sound, Wash., or Brooklyn, N. Y.: Sch. 916—4,300 lbs. bolts and nuts. Mare Island, Cal., or Brooklyn, N. Y.: Sch. 916—10,000 lbs. pig lead. Applications for proposals should designate the schedule desired by number.

Bids are asked until March 2 for the following: At Norfolk Navy Yard—Sch. 938—5,100 lbs. copper rods, Washington, D. C.—Sch. 936—5,000 lbs. gun forgings. Brooklyn, N. Y.—Sch. 937—7,000 lbs. steel nuts; Sch. 932—dust-collecting system at Navy Yard.

Bids are also asked until March 9, for the following: Portsmouth, N. H.—Sch. 963—20 M. ft. hemlock: Sch. 964—2,000 lbs. copper pipe: Sch. 962—4,300 lbs. brass tubing. Brooklyn, N. Y.—Sch. 973—1,000 lbs. check nuts, and 11,500 lbs. steel for nuts; Sch. 962—2,900 lbs. bar steel. Washington, D. C.—Sch. 961—8,000 ft. wire rope: Sch. 972—42,500 lbs. machine steel, and 6,300 ft. w.-i. pipe. Boston, Mass.—Sch. 971—3,200 lbs. phosphor-bronze wire: Sch. 974—10,500 lbs. brass pipe. Philadelphia, Pa.—Sch. 962, 15,400 lbs. forging steel.

Bids are asked until March 16 for the following: Mare Island, Cal.—Sch. 941—3,717 lbs. galv. steel angles; Sch. 949—4,910 ft lead pipe.

U. S. POSSESSIONS AND CUBA.

SCREENING.—Panama.—Bids were received as follows on Feb. 8 at the office of the General Purchasing Officer, Isthmian Canal Commission, for 2,000 rolls of bronze wire cloth or screening: Clinton Wire Cloth Co., Clinton, Mass., $25,500; 200 days. New Freedom Wire Cloth Co., New Freedom, Pa., $24,625; 150 days. W. S. Tyler Co., Cleveland, Ohio, $24,000; 270 days. White, van Glahn & Co., 37 Barclay St., New York, $36,420; 60 days. Wickwire Bros. Co., Cortland, N. Y., $22,500; no time stated.

Supplemental bids were received at the office of the Isthmian Canal Commission, under revised specifications of class 1, Canal Circular 490, Feb. 17, for furnishing 2,000 rolls bronze wire screening: delivery, Colon, as follows: Clinton Wire Cloth Co., Clinton, Mass., $21,900; complete delivery in 190 days. New Freedom Wire Cloth Co., New Freedom, Pa., $21,225; complete delivery in 150 days. W. S. Tyler Co., Cleveland, Ohio, $22,400; complete delivery in 270 days. Wickwire Bros Co., Cortland, N. Y., $22,500; complete delivery in 200 days.

STEEL RAILS.—Panama.—The General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded to the UNITED STATES STEEL PRODUCTS EXPORT CO., 50 Church St., New York, contract for furnishing 684 gross tons steel rails, 90-lb., at $21,204; 55 days.

SPIKES.—Panama.—Bids were opened at the office of the Isthmian Canal Commission on Feb. 10 for furnishing 1,000 kegs track spikes, delivery at Colon. The lowest bidder was the J. B. Kendall Co., Washington, D. C., $3,580; delivery in 30 to 50 days.

SUPPLIES.—Panama.—Bids will be received until 10.30 a. m., March 1, by Capt. F. C. Boggs, Corps Engrs., U. S. A., Washington, D. C., for furnishing base plates for steam shovels, shafting and drop hangers, power hack saws, band saws, lathe chuck, etc., as per Circular 494. Bids are asked until March 8 for flat cars, rail braces, steam shovels, twist drills, carborundum wheels, etc., per Circular 495.

CAPITOL BUILDING.—Porto Rico.—Bids are asked until March 6 for the construction of the capitol building of Porto Rico. Estimated cost, $275,000. All necessary information, blank forms of proposals and instructions to bidders will be furnished on application to this office or to the office of Frank E. Perkins, Arch., 1133 Broadway, New York City. Contractors wishing to take copies of the plans and specifications from the office may do so by leaving a deposit of $100 at either of the above offices for the safe return of the plans. Laurence H. Grahame, Commissioner of the Interior, San Juan, Porto Rico.

FOREIGN CONTRACTS.

(To insure prompt attention, letters from consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

TUG-BOATS.—Belguim.—Bids are asked until March 11, to be addressed to "Monsieur le Bourgmestre de la Ville d'Anvers, Hotel-de-Ville, Antwerp," for supplying two tugboats for use in harbor basins. Deposit of $1,200 is required.

WAREHOUSES, ETC.—Argentina.—Bids are asked until 2 p. m., March 17, addressed to the "Direccion General de Obras Hidraulicas del Ministerio de Obras Publicas, Buenos Aires," for construction of warehouses, railway lines, dock roads, etc.

STEEL RAILS.—Siam.—Bids are asked by the Royal Siamese State Railways until 10 a. m., April 15, for the supply of 20,000 tons of steel rails. Sealed bids, bearing the inscription "Tender for Rails," must be addressed to L. Weller, the Director General, Royal Siamese State Railways, Bangkok.

*MOTOR HOSE WAGON.—China.—Bids are asked by the Municipal Council of Shanghai for the supply of a petrol motor fire hose wagon. Specifications and particulars may be obtained upon application to Fearon, Daniel & Co., 96 Wall St., New York, to whom sealed bids, endorsed "Tender for Petrol Motor Fire Hose Wagon," should be addressed not later than April 15, 1909.

RAILWAY SUPPLIES.—Chile.—Bids are asked by the Director General de Obras Publicas, Santiago, Chile, until April 24 for the following supplies: 210 tires for bogie locomotives, 500 tires for coaches and cars, 94 tires for locomotives, 316 tires for flanges for motor wheels, 72 tires without flanges for motor wheels, 230 tires for coaches and cars of one meter, 3,760 spiral springs for cars, 100 double elliptic springs for coaches, 3,840 elliptic springs, 4,350 turned springs, 291 pairs of wheels with axles, 24 wheels without axles, 42 axles with double elbow, 144 extra axles for locomotives, 100 axles for bogie locomotives, 36 axles for tenders, 2,180 axles for coaches and cars, 190 injectors, 184 water gages, 116 safety valves, 144 lubricators, 240 steam manometers and 2,500 steel bumpers for cars. Specifications and conditions can be had on application to the office of Division Superintendent either at Valparaiso or Santiago.

RAILWAYS.—Chile.—Bids are asked until 3 p. m., March 1 (postponement from Dec. 1, 1908), for the construction of the railway between Arica, Chile, and La Paz, Bolivia. The work is divided into five sections, viz.: (a) from Arica to the 85th kilometer; (b) from the 85th to the 115th kilometer; (c) from the 115th kilometer to the Bolivian frontier; (d) from the Bolivian frontier to the 355th kilometer; (e) from the 355th kilometer to La Paz. Bidders must state, in addition to the sum total of their bids, the price of each of the five sections of the line. Materials, machinery, tools, etc., are to be exempt from customs and other duties. Bids must be accompanied by a draft for $25,000, made out to the order of the Chilean Government. Bids will be opened in the Office of the Under Secretary of State for Industry and Public Works (Subsecretaria del Ministerio de Industria i Obras Publicas), Santiago. The Legation of Chile at Washington, D. C., will furnish all particulars to contractors desiring to bid upon the work.

ADDRESSING CONSULAR OFFICERS.—With the many changes now occurring in the consular service the following statement is timely: "The habit of American business concerns in addressing correspondence of a commercial character to consular officers in their own names makes it impossible for a new occupant of a post to distinguish between letters of a personal and letters of a public character which may come addressed to his predecessor. If the letters are of a personal nature, his successor does not desire to open them. If they are of a public character and are forwarded to the former consul at his new location, he is put to the unnecessary and sometimes burdensome expense of repaying postage thereon at the rate of 5 to 10 cents per half ounce on letters which interest him not at all in his new station. This also means delay in the correspondence and oftentimes loss of the letter. Commercial houses should address all mail simply 'American Consul-General,' 'American Consul,' etc., or in case of using the name of the consul, stamp or write the words 'official character' on all mail."

CIVIL SERVICE EXAMINATIONS.

*WATER-WORKS SUPERVISOR.—Minneapolis, Minn.—An examination in hydraulic and mechanical engineering will be held in the office of the City Engineer on March 15, at 10 a. m., to examine candidates for the position of Supervisor of the Water-Works, in the Water Department of the City of Minneapolis. Address Board of Supervisors. (Advertised last week.)

ASSISTANT CHEMIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 24, to secure eligibles from which to make certification to fill at least one vacancy in the position of Assistant Chemist (male), $1,000 a year, Engineer Department at Large, for duty at the Washington, D. C., filtration plant and vacancies requiring similar qualifications as they may occur. Age limit, 20 years. Application Form 1312.

CIVIL ENGINEER.—Philippines.—The U. S. Civil Service Commission announces an examination on March 10-11 to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Civil Engineer in the Philippine Service. The entrance salary is usually $1,400 a year. There are, however, similar positions in that service paying higher salaries, and it is desired to secure from this examination eligibles who are qualified to fill the higher-salaried positions in the event that vacancies therein occur. Appointees are allowed field expenses when absent on duty from their permanent station. It is especially desired to secure eligibles who have had experience in river or harbor work to fill two positions, one at $1,800 and the other at $2,000 a year. Age limit, 18 to 40 years. Application Forms 2 and 375.

INDUSTRIAL NOTES.

ARCHER & ROLLINS have formed a partnership for the purpose of carrying on a general engineering business at 536-7 Beals Bldg., Kansas Citq, Mo.

LUDLOW & PEABODY, Architects, have moved into new offices at No. 12 West 31st St., New York. Wm. O. Ludlow was formerly of the firm of Ludlow & Valentine, which has now been dissolved.

PURDY & HENDERSON, Incorporated, civil engineers, announce the removal of their offices from 78 Fifth Ave. to the Everett Bldg., Union Square North, New York City.

THE INLAND STEEL CO., First National Bank Building, Chicago, announces that Eastman Brothers & Russell, Dallas, Tex., has been appointed general selling representatives for Texas, Oklahoma and Arkansas.

C. W. LRAVITT & CO., importers and selling agents of ores, metals and alloys, state that on and after March 20, 1909, their offices will be located in the Hudson Terminal (Cortland Building) 30 Church St., New York.

THE NATIONAL PAINT WORKS, New York, has opened a branch office at 1520 Chestnut St., Philadelphia, Pa., in charge of Herbert F. Wallace, and a branch office in the Monadnock Bldg., San Francisco, Cal., in charge of Van E. Britton.

THE AMERICAN CONSTRUCTION CO., Houston, Texas, announces that it replaces the H. L. Stevens Co., by vote of the Board of Directors and stockholders of the latter company. Mr. H. L. Stevens has severed his connection with the company.

A MODIFIED DESIGN of the continuous rail joint for use with frogs and switches and guard rails, has been successfully used during the past year and is now being placed upon the market by the Rail Joint Co., of New York.

THE RITER MFG. CO., Steel Construction, Pittsburg, has just established in the West two new sales offices. One in St. Louis, Third National Bank Bldg., with Mr. H. B. Clarke as Resident Manager and one in Seattle, Central Bldg., with Mr. W. H. Dickinson as Resident Manager.

OLAF HOFF, M. Am. Soc. C. E., announces that he has opened an office at the Singer Building, 149 Broadway, New York, for the purpose of engaging in a general engineering practice. Special attention will be directed to the designing of bridges, foundations, subaqueous tunnels, subways and other structures in steel, stone and wood.

THE CONTRACTORS' SUPPLY CO., manufacturers' agents for general construction and building supplies, has opened an office in the First National Bank Bldg., Vicksburg, Miss., to cover entire Vicksburg territory and North Louisiana as far west as Shreveport, La. The company desires catalogs, price lists, etc., from any manufacturer who desires to enter this field.

THE LAMSON CONSOLIDATED STORE SERVICE CO., Boston, states that the Commissioner of Patents in Washington has handed down a decision in favor of the Lamson Co., the principal subsidiary company of the American Pneumatic Service Co., in a patent case between the Lamson Co., and the Universal Pneumatic Transmission Co., of Chicago, involving broadly an invention of what is known as "Bell-mouth Pneumatic Power Saving Apparatus," this being the third decision in this case, all of which have been in favor of the Lamson Co.

THE BLAIR PORT COMPANY, recently organized in New York, has changed its name to the Blair Engineering Company, with the main office in Chicago, with Thos. S. Blair, Jr., Pres.; J. Stewart Andrews, Vice-Pres. and Secy., and Roswell P. Mundy, Vice-Pres. and Treas.; the business of the company being the manufacture of patented devices for use for open hearth steel practice.

THE ROAD AND TRACK SUPPLY ASSOCIATION, of Chicago, announces that an extensive exhibition of appliances used in the construction, maintenance of and operation of railways will be held at the Coliseum, Chicago, in the week of March 15 to 20. The building and its annex have about 55,000 sq. ft. of floor space, of which 38,700 sq. ft. will be devoted to exhibits. Several firms have already taken considerable space for their exhibits, some of them taking 1,000 sq. ft. A large attendance of railway officers as visitors is expected. Further particulars of the exhibition may be obtained from Mr. John N. Reynolds, Secretary, 160 Harrison St., Chicago.

THE POWER EQUIPMENT CO., 200 to 218 Third Ave., N., Minneapolis, was recently organized by W. H. Day, W. C. Buck, J. F. Gould, C. W. Yust, M. C. Nachbar and C. L. Scott. The officers are: President, W. B. Jordan; Vice-President and General Manager, W. H. Day; Treasurer, W. B. Jordan, Jr. The Power Equipment Co. will deal in steam engines and boilers, steam and power pumps, feed water heaters, dynamos and motors, air compressors and hoists, complete installation and Foos gas, gasoline and producer gas engines. Especial attention will be given to the installing department, thus opening to the company a wide field of operations. A full line of electrical equipment will also be handled, as well as waterworks machinery and appurtenances.

THE SEATTLE OFFICES of the Stone & Webster Engineering Corporation have been moved to the White Bldg., which has recently been built by that organization for the Metropolitan Building Co. The White Building is an 11-story steel frame structure 111 x 121 ft. The floors are reinforced concrete and the walls are brick with granite and terra cotta facing and trimmings. About 1,250 tons of structural steel were used in the construction. Ground was broken on March 1, 1908, and the building was ready for occupancy Jan. 1, 1909. The same contractors have recently begun the construction of a second similar building for the Metropolitan Building Co., which will be known as the Henry Bldg. Both of these buildings are located on what is known as the "University Tract," a large section of land in the business section of the city, leased to the Metropolitan Building Co., under favorable conditions. The White Bldg. was constructed on the "cost plus" basis and the Henry Bldg. is being built on the same terms.

THE POWER MINING MACHINERY CO., Cudahy, Wis., reports the following important sales to the crushed stone industry: Hine Stone Co., Lima, O., complete crushing plant consisting of one No. 6 and one No. 3 McCully crusher, with elevators, screens, etc. Chicago & Northwestern Ry., crushing plant at Winona, Minn., consisting of one No. 7½ and one No. 5 McCully crusher with elevators, screens, hoists, etc. Brownell Improvement Co., Thornton, Ill., one special No. 10 McCully crusher having opening 27" wide and one No. 6 McCully crusher, screens and elevators. Dolese & Shepard, Gary, Ill., complete crushing plant consisting of one Mammoth McCully crusher having 42" receiving opening, four sets 54" x 24" Superior crushing rolls, ten revolving screens and three special pan conveyors. Illinois Stone Co., Chicago, Ill., addition to existing plant consisting of one No. 10 McCully crusher. Granite Rock Co., Watsonville, Cal., 1 No. 7½ and one No. 3 McCully crusher with elevators and screens. Woodruff & Pausch Stone Co., Columbus, O., one Mammoth McCully crusher with 42" opening, revolving screens, etc. Chas. Longnecker & Co., New York City, for the Stewart-Kerbaugh-Shanley Co., High Falls, N. Y., a portable rock crushing and concrete mixing plant, including one No. 4 and one No. 3 McCully crusher, one set of crushing rolls, elevator and screens. Carnegie Steel Co., Youngstown, O., one No. 5 McCully crusher.

A NEW STYLE OF HOT BLAST HEATER coil, distinguished by a positive flow of steam, water of condensation and air in the natural direction due to gravity, and suitable for use with live and exhaust steam and also with water for heating or cooling purposes, was recently placed on the market by the Green Fuel Economizer Co., of Matteawan, N. Y. Among recent sales of this apparatus to well known concerns, the following are reported: Grand Rapids Ref. Co., Grand Rapids, Mich.; Public School No. 101, Oceanic, N. J.; Lincoln School, Racine, Wis.; Bartlett, Kuhn & Co., Terre Haute, Ind.; I. E. Palmer Co., Middletown, Conn.; First Avenue Brick & Tile Co., Evansville, Ind.; Turners Street School, Grand Rapids, Mich.; Green Co. Asylum, Monroe, Wis.; Badger State Malt Co., Waterloo, Wis.; Stauber Bros., Newark, N. J.; Waterbury Castings Co., Waterbury, Conn.; W. H. Conklin Co., Columbus, Ohio; P. Nacey Co., Chicago, Ill.; O. C. Davis Co., Racine, Wis.; Alabama State Normal School, Jacksonville, Ala.; Weil & Eisendrath, Chicago, Ill.; Newbury Mfg. Co., Monroe, N. Y.; Wallace Bros. Co., La Fayette, Ind.; M. & H. W. Nixon Paper Co., Manayunk, Pa.; Carnegie Steel Co., Waverley Warehouses, Waverley, N. J.; Davis Mills, Fall River, Mass.; Wageraw Bleachery, Hawthorn, N. J.; Lawton-Tallman Co., Jersey City, N. J.; Youngstown Sheet and Tube Co., (4 orders), Youngstown, Ohio; Textile Finishing Co., New Durham, N. J.; Engelhart Hitchcock Co., St. Joseph Infirmary, Atlanta, Ga.

CONTRACT PRICES.

*PIER, DREDGING.—Milwaukee, Wis.—Bids were received by Maj. W. U. Judson, Corps Engrs., U. S. A., on Feb. 12 for building reinforced-concrete caissons and pile pier, removing old pier and dredging at Milwaukee Harbor. Bids in detail were as follows: (A) Standard Construction Co., Chicago, Ill.; (B) Samuel O. Dixon, Milwaukee; (C) William H. Gillen, Milwaukee; (D) Greiling Bros. Co., Green Bay, Wis.:

	(A)	(B)	(C)	(D)
No. 1 concrete in caissons, 1428 cu. yds	$16.00	$18.00	$15.50	$15.00
No. 1 concrete in pile pier, 58 cu. yds	23.00	18.00	9.00	15.00
No. 2 concrete in caissons, 575 cu. yds	8.00	9.00	9.00	10.00
No. 2 concrete in pile pier, 1,183 cu. yds	9.50	9.00	9.50	10.00
No. 3 concrete, 1,256 cu. yds	6.50	8.50	6.00	8.00
344 foundation piles, driving, cutting off, etc., piles to be furnished by U. S. ....each	10.00	9.00	7.50	6.00
Driving round piles in pile pier, piles furnished by U. S., per lin. ft. (13,500 lin. ft.)	.20	.20	.17	.17
Making and driving sheet piles, timber furnished by U. S., per M ft. B. M. (331,000 ft. B. M.)	18.00	18.00	15.00	18.00
Framing timber, furnished by U. S., per M ft. B. M. (75,000 ft. B. M.)	22.00	18.00	18.00	20.00
Wrought iron or steel drift bolts and wrought iron or wire spikes (8,600 lbs.)	.06	.06	.05	.05
Wrought-iron or steel screw bolts and tie-rods (49,300 lbs.)	.06	.06	.05	.05
Stone, 10,000 tons, per ton of 2,000 lbs.	1.50	1.75	1.45	1.65
Removing 1,425 lin. ft., old pier	18.00	19.00	15.00	22.00
Dredging 50,000 cu. yds (scow measurement)	.25	.18	.17	.19
	$118,556	$124,290	$105,065	$121,980

TIE CARS AND TRACK VELOCIPEDES.—Buda Foundry & Machine Co., Chicago. Paper; 6 × 9 ins.; pp. 8 and 16; illustrated.

The smaller pamphlet shows different designs of tie-handling and charging cars for use at tie-treating plants. The other pamphlet shows hand and power-operated cars for use by roadmasters, signal repair men, and other railway officials and employees.

MINATURE ELECTRIC LAMP.—National Electric Lamp Association, Engineering Dept., 4411 Hough Ave., Cleveland, Ohio. Bulletin 8. Paper; 6 × 9 ins.; pp. 36; illustrated.

A complete list, with full-size illustrations, is herein given of the regular types of "minature" and "candelabra" carbon-filament lamps, for all services, as manufactured by the 18 companies forming this asssociation.

ENGINEERING INSTRUMENTS.—Bausch & Lamb Optical Co., Rochester, N. Y. 8 × 10½ ins.; pp. 67.

This company, formed from the combination of a leading lens manufacturer and a maker of precise engineering instruments, are now prepared to sell all sorts of accurate engineering instruments. The present catalog gives the standards they are now making.

ALTERNATING-CURRENT TRACK-CIRCUIT SIGNAL SYSTEM.—The Hall Signal Co., Chicago and New York. Paper; 5½ × 8¼ ins.; pp. 21; illustrated.

This pamphlet contains a description of the alternating-current track circuit without insulated joints or reactance bonds, as installed on the Long Island R. R. It is said that from the time it was put in service in June, 1908, up to Jan. 1, 1909, there had not been a single failure.

SURVEYORS' INSTRUMENTS.—Bausch & Lamb Optical Co., Rochester, N. Y. Handbook. Paper; 3 × 5¾ ins.; pp. 28; illustrated.

This book, of vest-pocket size, contains the solar ephemeris for 1909 and also directions for using the Saegmuller solar attachment, now so universally employed. There are directions, with diagrams, for using and adjusting the engineers wye level, the dumpy level and the transit as well as other useful information.

CONDENSING MACHINERY.—Dean Bros. Steam Pump Works, Indianapolis, Ind. Catalog No. 74. Paper; 6 × 7½ ins.; pp. 56; illustrated.

This catalog contains illustrations and general descriptions of jet and surface condensers with vertical and horizontal air pumps. The Dean Bros. vertical air pump is of the double acting type with no valves in the piston. There are tables of principal dimensions of the various types of pumps shown.

MILLING MACHINES.—Pratt & Whitney Co., Hartford, Conn. Paper; 9 × 12 ins.; pp. 40; illustrated.

The machines described and illustrated in this brochure are precision tools intended for the more accurate class of work, including the milling of small parts of firearms, typewriters, etc. This company offers to quote prices for complete groups of machines, with cutters, gages, etc., for the manufacture of such products requiring interchangeability of parts.

VARIABLE SPEED STEAM ENGINES.—American Blower Co., Detroit, Mich. Pamphlet No. 244. Paper; 7 × 9 ins.; pp. 7; illustrated.

This pamphlet describes the "A B C" vertical, self-oiling engine with a speed varying attachment for driving paper machines. The governor jack-shaft is driven from the engine shaft by a friction disk transmission. By changing the speed ratio between engine and governor shafts through this transmission, the engine speed is variable from 450 to 90 r.p.m.

STEAM AND TRACTION ENGINES, THRESHERS AND PLOWS.—Avery Co., Peoria, Ill. Paper; 11½ × 8½ ins.; pp. 64; illustrated.

It is interesting and instructive to learn from this catalog the degree to which certain branches of agricultural engineering have been developed. The information presented regarding traction engines, steam plows and threshers goes into considerable detail, and even includes some line drawings and many photographs of parts. The steam plows shown turn as many as ten furrow at once.

OPEN-HEARTH STEEL PRODUCTS.—Inland Steel Co., First National Bank Building, Chicago. Leather; 5 × 7¾ ins.; pp. 158; illustrated.

This is a catalog (with dimensions and weights) of rolled structural shapes, bars, billets, twisted steel bars for concrete reinforcement, etc. Also steel plates and sheets, corrugated steel and steel roofing. Tables of weights and dimensions are given, together with the "Manufacturers'" specifications for structural steel, plate and rivet steel. All these products are made at the company's open-hearth plant at Indiana Harbor.

PRODUCER-GAS PLANTS.—R. D. Wood & Co., 400 Chestnut St., Philadelphia. Paper; 6 × 9 ins.; pp. 160; illustrated.

The new catalog of this company takes up the industrial applications of producer gas, particularly for power and metallurgical uses. There is much data on actual plants in service. These catalogs have always been in great demand by technical schools for distribution to the students in mechanical engineering at proper times in their courses. The new edition will be found even more acceptable than the old.

PORTABLE ACETYLENE LIGHTS.—The Alexander Milburn Co., 507 W. Lombard St., Baltimore, Md. Catalog H. Paper; 6¼ × 9½ ins.; pp. 24; illustrated.

The Milburn light is made in sizes up to 5,000 c.p. per burner. They are said to have less than one-half the weight of oil lights of equal power. The high powered lights for the use of contractors, etc., are fitted with stormproof burners and parabolic aluminum reflectors. Hand lights and miner lights burning acetylene are likewise shown in this catalog. Prices are given on all lights described, together with the operating cost.

INDUSTRIAL PROGRESS.—Industrial Progress, P. O. Box 1580, 330 Clinton St., Milwaukee, Wis. Paper; 8 × 10½ ins.; pp. 61; illustrated.

Under the above title appears the first issue of an attractively gotten up monthly publication. Its 61 pages of reading matter and half-tone illustrations are devoted to reprinted articles from the technical press describing engineering developments involving Allis-Chalmers Co. productions. Water turbines, electric generators, gas engines, steam turbines, steam engines and rock-crushing, pumping and mill machinery are treated in the first issue.

SURVEYING INSTRUMENTS AND DRAWING MATERIALS.—Iszard-Warren Co., 1122 Vine St., Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 227; illustrated.

This is a comprehensive and very well printed catalog and price list. It includes the Sterling transits and levels, engineering field equipments and drafting office outfits and supplies. The special features of the instruments are described, with particulars of the solar and gradienter attachments. There are special instruments for builders and architects' use, plane tables, surveying compasses, and monocular and binocular hand levels. The field equipment includes rods, tapes, chains, tape repairing devices, etc. The catalog of drafting instruments and supplies covers about 120 pages. Special devices include barometers, anemometers, portable air-current meters, rain gages, naval and astronomical telescopes, etc.

BALL AND ROLLER BEARINGS.—Standard Roller Bearing Co., Philadelphia, Pa. Catalog No. 24. Paper; 5¼ × 8 ins.; pp. 187; illustrated.

In this catalog are described and illustrated about 50 types of ball and roller bearings for a great variety of purposes. Price lists are given for the different sizes of bearings shown, which include journal, thrust and step bearings. Curves are reproduced showing the temperature rise of these bearings under various conditions of load and sped and showing the friction horsepower of ball and roller bearings compared with plain babbitted bearings. The illustrations include sectional drawings of several types of ball and roller bearings, and tables are given for converting fractional parts of inches to millimeters. This company has furnished bearings to carry loads of 1,500,000 lbs. at slow speed, 250,000 at 500 r.p.m. and with lighter loads for speeds up to 25,000 R.P.M.

TUNGSTEN STREET LAMPS. — General Electric Co. Paper; illustrated.

Pamphlet 3728 (5 × 8 ins.; pp. 24) gives a brief exhibit of the value and economy of Tungsten series street lamps, showing the marked saving over the carbon and "Gem" lamps, and the possible gain in income. It shows the rate at which the Tungsten lamp is able to compete with Wellsbach gas street lamps, the economical life of the Tungsten lamp, the relative cost of producing a candle-hour of light with the Tungsten as compared with the ordinary carbon and "Gem," and the candle power and life performance of the Tungsten series lamp.

Bulletin 4637 (8 ×10½ ins.; pp. 8) illustrates and describes various styles and sizes of Tungsten incandescent lamps for battery service. The bulletin illustrates and describes battery lamps, novelty lamps, surgical lamps, lamps for limousine automobile lighting, and various other styles with minature bases and bases adapted for use in standard sockets. The bulletin contains also prices of the various types.

For other Proposal Advertisement see pages 43, 44, 48, 50, of Advertisements and Construction News page 66.

GRAVEL ROAD.

Cape May County, N. J.

Sealed proposals will be received by the Board of Chosen Freeholders of Cape May County, N. J., until twelve o'clock noon of the day of its meeting on the sixteenth day of March, nineteen hundred and nine (1909), at Cape May Court House, N. J., for the construction of a gravel road from the center of the Seashore road at Rio Grande, to the angle in Rio Grande Ave., at Holly Beach, a distance of two and nine hundred two-thousandths (2.902) miles and known as the Holly Beach Turnpike.

Said road to be constructed according to plans and specifications, which may be seen at the office of Hon. Frederick Gilgyson, State Commissioner of Public Roads, Trenton, N. J.; at the residence of A. B. Smith, Director, Beesleys Point; J. P. Fox, Chas. Sayers, and W. S. Johnson, Ocean City; Charles Clouting, Sea Isle City; J. D. Ludlam, South Dennis; Sylvester Spence, Goshen; D. Schellenger, Erma; J. T. Bennett and D. W. Rodan, Cape May City, or at the office of the Engineer at Ocean City, N. J.

On the day and date first mentioned all proposals received for said work will be immediately opened and publicly read by the Board of Chosen Freeholders of Cape May County, N. J., the said Board reserving the right to reject any or all bids, if deemed to the best interests of the County.

Each bid must be accompanied by a certified check to the amount of One Thousand Dollars ($1,000.00) drawn payable to the order of Anthony B. Smith, Director of the Board of Chosen Freeholders of Cape May County, N. J. The successful bidder will be required to execute within ten days after the contract has been awarded to him a bond in such sum and with such security as shall be approved by the Board of Chosen Freeholders; said bond shall be in a sum of not less than the estimated cost of the road when completed.

Each bidder will be required to submit to the State Commissioner of Public Roads, Hon. Frederick Gilkyson, Trenton, N. J., and to the Engineer prior to the time of submitting bid for construction a sample of the gravel he proposes to use in the construction of this road.

All proposals must be on the regular "Proposal" form provided for the purpose; sealed and plainly marked on the outside of envelope enclosing them "Proposal for Holly Beach Turnpike," with name and address of bidder.

By order of Board of Freeholders.

ANTHONY B. SMITH, Director.
R. FENDALL SMITH, County Engineer.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
Incorporated.

Sealed proposals for the construction of the Cave Hill Lateral Sewers, Contract No. 27, of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, March 12, 1909.

The work will consist mainly of building about 4,500 feet of separate sewers of sizes 8 inches to 30 inches in diameter; about 9 feet deep, and including 100 cu. yds. of concrete.

Plans and specifications may be seen at the office of the Commissioners.

Sealed bids should be endorsed "Proposal for Cave Hill Lateral Sewers," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
Incorporated.

Sealed proposals for the construction of a sewer known as Section "A" of the Middle Fork Trunk Sewer, Contract No. 28 of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, March 19th, 1909.

The work will consist mainly of building a concrete sewer about 3,500 feet long, sizes 74 inches and 60 inches in diameter, and including about 860 cu. yds. of concrete. About 1,600 feet of this sewer will be in tunnel partly in rock.

Plans and specifications may be seen at the office of the Commissioners and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for Section 'A' Middle Fork Sewer," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

WATER-WORKS.

Mart, Texas.

Bids will be received by the Hon. R. W. Bass, Mayor of Mart, Texas, for the purchase of all material necessary in the construction of a system of municipal water-works for said town, which will include steel water tower, return tubular boilers, cast-iron pipe and fittings, fire hydrants and water gate valves, water-works pumps, boiler feed pumps, lead, oakum and other water-works supplies. Specifications can be had by addressing O'NEIL ENGINEERING CO., Dallas, Texas.

MOTOR HOSE WAGON.

Shanghai, China.

SHANGHAI MUNICIPAL COUNCIL.

The Council invites tenders for the supply of a Petrol Motor Fire Hose Wagon.

Specifications and particulars may be obtained upon application to Messrs. Fearon, Daniel & Co., 96 Wall St., New York, to whom sealed tenders, endorsed "Tender for Petrol Motor Fire Hose Wagon," should be addressed not later than April 15, 1909.

The Council does not bind itself to accept the lowest or any tender or to refund any expenses incurred in tendering.

Council Room, Kiangse Road,
Shanghai, China.

HEATING AND VENTILATING.

Wheeling, W. Va.

Bids will be received by the Clerk of the Board of Education for the Heating and Ventilating of the new High School Building at Wheeling, West Va., until five o'clock P. M., March 10th, 1909. Plans can be seen at the Builders' Exchange, Chicago, Ill., Pittsburg, Pa., New York City and Cincinnati, Ohio, and also at the office of Giesey & Faris, Architects, Wheeling, W. Va. The Board reserves the right to reject any or all bids.

Situations Open

WANTED—Competent salesman with thorough practical experience in machine shop, must understand conditions of hydraulic power plants. Person of engineering ability understanding turbines and turbine regulators preferred. State salary expected and state experience and former employees. Address "M. A. 8," Engineering News, New York. 8-1t

WANTED—Designing engineer on concrete, structural and mechanical work in consulting engineer's office. Address "O. A. 8," Engineering News, New York. 8-1t

"WANT"

Advertisements in ENGINEERING NEWS cost 1½ cents a word an insertion for "Situations Wanted" and 3 cents a word for "Situations Open" and "Miscellaneous Wants." Read them weekly—they will help you.

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